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PHILOSOPHY

Donald Anthony, Co-Editor

In these modern times a college education is almost a prerequisite to becoming a success in life. The once simple life of the farmer has been greatly complicated by technical knowledge which is required in the fields of breeding, nutrition, fertilizers, diseases, marketing, and many others. Also, before a businessman will hire anyone to work for him, he makes sure that he has the necessary technical knowledge to qualify for the job.

These facts point to one reason for our being in college. We may feel that if we learn about the technical aspects of our field, this will make us a success in it. This is important, of course, but it is only one part of our education. If this is all we get out of college we are wasting a lot of time and cheating ourselves out of invaluable educational experience.

This education does not come from the classroom, but from the church groups, clubs, publications, and projects in which we take part during our campus life. Here we learn how to get along with people, how to work with and for others, and how to get others to work for us. This in itself is worth more than all of our technical training.

A good example of this is the Agricultural Fair which was held October 29 and 30. For several days before the fair, you could go to the Ag. Center any night and find a certain group of students and perhaps one professor in each department working into the late hours preparing their exhibit for the fair. These boys were getting nothing in the way of credit or money for their work.

However, unconsciously these students were getting invaluable experience in how to cooperate and get things done, and in association with men of importance. After all, a child can learn to run a machine, but before he can become a man, he must learn how to get along in the world. The same holds true whether you are working with a church group, putting out a publication, or working on a club project. In the game of life, these experiences will always help you to keep two jumps ahead of the "two bit technician", whose extracurricular activities probably consisted only of a dance or two, a few ball games, and seeing all of the new movies in town.
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In Memoriam

The Agrarian expresses the sorrow of the faculty and students of the School of Agriculture of the Clemson Agricultural College in the loss of a great friend of many years — Mr. William H. Danforth.

His friendship and great work will long be remembered. He was a great Christian leader, an inspiration to young men, an example of the best in industrial leadership, a personality that stimulated all who knew him to do better than their best, and his “I Dare You” will continue to challenge all of us to use his teachings to help ourselves and others.
The Fair  
By Ray Buck

An estimated five thousand persons attended the 1955 "Student Agricultural Fair", sponsored by the South Carolina Chapter of the Fraternity of Alpha Zeta. The fair which is a biennial event, was held this year in the new Plant and Animal Science Building and Food Industry Building. The majority of the visitors were from South Carolina and neighboring states but, the register showed visitors from such distant points as California, Oregon, Idaho, Nova Scotia, and even London, England.

The theme of the fair was "Preparing for a Career in Agriculture." Two publications calling attention to career opportunities for college agriculture graduates were available for visitors. Each of the sixteen departments developed displays following this theme. Awards were given for departmental exhibits and individual displays. These prizes consisted of a ribbon and ten dollars for first prize, seven dollars for second and five dollars for third. Mr. D. W. Watkins, former Extension Director and presently Master of the Grange; Dean H. L. Hunter, Dean of the School of Arts and Science; and Mr. A. H. Ward, District Extension agent at Aiken, served on a committee to judge the exhibits.

The first prize for departmental exhibits was awarded to the Animal Husbandry Department. Fred McLaughlin, Jr., was Student Chairman of the department. Displays included sheep and wool, production equipment, meat equipment, meat display, feed consumption, meat from producer to consumer, kinds of feed, and job opportunities.

Second prize went to the Horticultural Department with H. E. Crane as Student Chairman. Horticulture displays consisted of a model landscape, plant propagation, vegetables for vigor, everything from fruits to nuts, and horticultural advancement due to research.

The Agronomy Department was awarded the third prize. J. D. Hicks, Jr., was Student Chairman and displays included crops, soils and a guessing contest.

The first prize for the best individual display went to the Agricultural Engineering Departments sand table. This was a very detailed exhibit showing a model farm lay out using recommended practices.

The second prize was awarded to the Entomology and Zoology Departments exhibit "Careers in Entomology and Zoology." This display showed the opportunities available for graduates in these fields.

The Dairy Departments' Blue Cheese display was awarded the third prize. In this display the various stages in the production of Blue Cheese were shown.

The newly selected 1956 Maid of Cotton, Miss Betty Lane Cherry of Orangeburg, reigned as Queen of the Fair. Miss Cherry was on hand to welcome visitors. Her beauty and charm added much to the success of the fair.

(continued on page 20)
Animal Husbandry Exhibit

Fred McLaughlin, Student Chairman

At the Clemson College Agricultural Fair, the Animal Husbandry Department topped all other departments by winning first prize for departmental exhibits. One of the many exhibits that contributed toward our winning was the sheep and wool display. This was considered a very interesting exhibit for the public. It contained samples of clean wool grades according to U.S.D.A. standards. It also showed the products and by-products of the wool industry.

A very interesting display was a "meat from producer to consumer" display. This was a novelty display in which an electric train was traveling around a track that had different sections of the Nation represented around it. It brought to the public's attention that meat travels an average of 1,000 miles from the time it leaves the producer until it is meat on the table.

Since much equipment is used in producing and slaughtering meat animals, we had a display of meat and production equipment. Dehorners, castration equipment, halters, etc., were shown for production equipment, and sticking knives, steak knives, bell scrapers, etc., were shown for meats equipment. A meat display was set up in the refrigerated rooms. A complete hog carcass was cut into its wholesale cuts. Two pork loins were shown to show the difference in fatness.

To show the public how much feed it requires to produce meat, a feed requirement display was set up. The feed required to produce one hundred pounds of pork, beef, and mutton, in its actual proportions. It was quite a surprise to most of the public to see the large amount of feed...
an animal eats to produce one hundred pounds of gain.

The members of the faculty and the students who worked unflaggingly on the exhibit are to be highly commended for the excellent work they did in helping make the Ag. Fair a success.

**Agricultural Engineering Exhibit**

_C. M. Kowalski, Student Chairman_

The Clemson Student Branch of ASAE was in charge of the Agricultural Fair in the Agricultural Engineering Department. Since the theme was "Preparing for a Career in Agriculture", we based our display on the very beginning of the service, _education_, and worked through to an ideal farm. That is, we began with the study of the four phases of Agriculture Engineering. On a table we had the four text books which pertain to these four phases, Soil and Water Conservation, Farm Electrification, Farm Structures, and Power Machinery. It is from these text books that we get the very fundamentals of our profession. Following this was a drawing table upon which were placed four working drawings that the student himself does in class during his course of study.

In the background were four individual displays, still pertaining to the four phases of Agricultural Engineering. Each display was prepared by the students in the lab, and much work and thought were put into each. A transit, level, tripod, and range pole along with irrigation pipe and pump, displayed what one may encounter if he is dealing with soil and water conservation. Posters were used as aids to clarify this equipment.

In Farm Electrification different pumps were displayed with cut-away views to show the working parts. A small pump was set up in a container of water and was continuously pumping. Also in this display was a chart of wire sizes, the ones which a builder will deal with in constructing his house.

Under Farm Structures, correct and incorrect joints of wood were placed on a table. This clearly showed the advantages of the correct, and faults of the bad joints. A small frame structure of a pole barn showing the set up of the poles to secure maximum room for equipment and other farm goods was placed along with the display on wood joints.

In the power and machinery display, students had constructed a tractor engine with a cut-away view of the valves and other parts in operation. This motor was geared to a small electric motor which moved the parts much slower than an ordinary engine would run.

From these four individual displays a scale model farm was set up on a sand table. Here was shown the good farming practices with special emphasis on soil and water conservation, farm electrification, farm structures, and power and machinery.

Thanks go to the faculty and students of the Ag. Engineering department whose hard work produced these exhibits.
In keeping with the theme of the Ag Fair, the Horticulture Club divided its profession into five major fields. These fields are: landscaping, nursery, fruits, vegetables, and research. An individual exhibit was prepared for each of these fields. A poster was placed in the center of the exhibits, and streamers extended to each of the exhibits.

The landscaping exhibit represented the complete landscaping of a small home. Directly behind the model was a detailed drawing of the layout, giving plants used and quantities. The nursery exhibit consisted of a model sales yard and displays of various propagation methods, including cuttings, grafting, budding, and rooting. The fruit exhibit displayed the various fruits grown in South Carolina, which included apples, peaches, and grapes.

The vegetable exhibit was divided into three layers, each depicting the three subdivisions of the state's farming areas: Piedmont, Sandhills, and Coastal Plains. Vegetables from each subdivision were displayed on their respective layers. The research exhibit served to unite the entire display by showing publications pertaining to each of the preceding fields.

This exhibit was located in the cannery of the new food industries building. Credit should be given to Prof. Van Blaricom and to the Horticultural Club members who prepared this attractive exhibit which received second prize for departmental displays.

Poultry Department Exhibit

Carl Outz, Student Chairman

In accordance with the theme of the Ag. Fair which was "Preparing for a Career in Agriculture," the poultry exhibits were designed primarily to show the many opportunities offered to college graduates in the poultry industry. These careers were broken down into the fields of:

1—marketing and processing poultry and poultry products,
2—poultry breeders and hatchery (continued on page 9)
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These men, of course, carry out but one phase—the inspection phase—of the John Deere Quality Control program—a program, incidentally, that embraces the entire scope of manufacturing. Others are just as busily engaged in tabulating these facts and translating them in terms of indicated manufacturing procedure.

The Quality Control program is John Deere’s way of making sure that each unit leaving the assembly line stands, trim and efficient—a quality product—ready for the field and ready to serve the cause of better farming.

*Here an operator is grinding the body diameter of a cotton picker spindle. The control chart on this machine is similar to thousands of control charts on machines or work stations in the John Deere factories and is designed to assist the operator and supervisor in maintaining tolerances.*

*This chart is much like the one in the picture at the left and shows how statistical analysis is used to indicate the ability of the process to maintain established tolerances. The projected lines are guide lines used by the operator to aid him in maintaining these tolerances—all part of the John Deere statistical quality control system.*

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POULTRY EXHIBIT
(continued from page 7)

men, 3—poultry production, and 4—nutrition.

First, representing the career field of marketing and processing poultry and poultry products, the visitors made a tour through the dressing plant. Here they saw birds in the various stages of dressing and processing, and the type of equipment which would be used in a modern dressing plant. Also under this field was shown examples of the various grades of eggs and egg grading and weighing equipment.

Under the field of breeders, progress was shown in the increase in the number of eggs produced and the efficiency of feed conversion as compared to ten years ago. This was shown by the use of live birds and the amount of feed used to produce them. The field of hatcherymen was represented as an incubator in which chicks were hatching during the fair. Also live embryos were shown in the various stages of development.

The broiler field of poultry production was represented by a model brooder room with chicks under infrared heat. A demonstration consisting of hens in laying cages showed how eggs might be produced by either a large or a small producer.

The complexity of a nutritionist's career was shown by dividing a modern poultry feed into its many ingredients and showing what each ingredient furnished. As added attractions there was a demonstration showing four eggs supporting 160 pounds of calcium, and a guessing contest in which a frozen turkey was given away.

We hope that the people who saw these exhibits are now better informed on the phases of poultry production. Credit for preparing these exhibits should be given to Prof. J. B. Cooper and the students majoring in poultry who worked on the exhibit for their excellent job.

Entomology Exhibit
Jack Langston. Student Chairman

Carrying out the theme of the Agricultural Fair, the display of the Entomology Department gave emphasis to careers in agriculture, with specific application to careers in entomology. The display illustrated the three main fields entomology graduates normally enter. These fields are: private industry, Federal government, and State government work. The main jobs brought out in the display were such things as pest quarantine, pesticide research and development, teaching, extension work, and technical services.

The exhibit further reflected the type training given entomology students here at Clemson with displays of preserved and living specimens. This phase of entomological training is the most important, as it is the basis for identification and classification of insects. Raising insects under these laboratory conditions gives the student a closer insight as to

(continued on page 11)
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their habits and life histories, from which valuable information can be gotten.

Worked in very appropriately with the entomological exhibit were the zoological displays. A study of zoology is essential before the student can advance into a specialized biological science as entomology. It is from zoology that the student gets his basic understanding of animal life, progressing from the simple one-celled animals on up to man. From zoology the student learns where insects belong on the scale of animal life in comparison with the other animals.

With this type training shaping his background, the student prepares himself to meet with the entomological problems of mankind.

Thanks go to the faculty and students who, through few in number, prepared an excellent exhibit.

Agronomy Exhibit

By Bill Dailey

The Agronomy Exhibit at the Agricultural Fair enlightened many misinformed and inquisitive viewers of the scope of the Agronomy field. The Agronomy Club with the help of faculty advisers achieved its goal by presenting a distinct breakdown of the various phases of Agronomy.

The exhibit was shown in the showroom of the Food Industry Building. The high hanging sign with Agronomy written on it illuminated the important crops and soils of South Carolina provided a colorful, eye-catching introduction for approaching spectators. In an attempt to give a clear-cut picture, the two main divisions, crops and soils, were shown by two signs placed to the left and right and immediately under the main heading. These two divisions were broken down into their respective components with exhibits which best represented each component. At this point, it is appropriate to discuss these two phases in some detail as they were pictured to the spectators.

Crops were presented in a very precisely outlined and informative arrangement of field crops, forage crops, lawn grasses, and plant breeding. Of these exhibits, the plant breeding in the form of in-breeding and cross of corn to obtain a hybrid variety received most attention. This subject was carried out with actual corn stalks from the field plots of commercial layouts.

Four lines of corn were inbred for a period of seven years, and the exhibit contained one stalk of each of these line's end products which was labeled A, B, C, and D. The next step was to combine these four lines into two lines and this was done by crossing A to B and C to D. These two crosses were shown with two larger stalks which also produced more grain than the original four lines. These characteristics were brought about by hybrid vigor. This vigor, which is actually what the breeder was striving for, is carried over to the next generation which is the cross between AB and CD. The plant ABCD which is the end product of this process in the seed the farmer plants. To sum this demonstration up, the program was begun with four inbred lines and these were combined until one line, a hybrid variety, resulted.

Some newly developed lawn grasses made a fine showing also. Because of the emphasis being placed on home grounds beautification, this was a timely demonstration since it rated some of the leading old grasses with these new grasses. The new ones were tiflawn and tiffine, which are bermudas along with meyer, emerald, King, and matrella which are Zoysias.

The soil profiles, a vertical slice of soil, were very appealing while they represented formation and classifica-

Prof. W. B. Boykin points out to Miss Betty Lane Cherry, Maid of Cotton, some of the soil profiles in South Carolina.
ALPHA ZETA NEWS
The members of the South Carolina Chapter of the Fraternity of Alpha Zeta have relaxed since the Agriculture Fair, knowing that there won't be another one for two years when all of the present members will have graduated. The November issue of The Agrarian (sponsored by the fraternity) has been mailed out and the January issue is well on the way to publication at this writing.

The members of the fraternity voted that since most of the year's business is completed, every other meeting be used as a program meeting rather than a business meeting.

BLOCK AND BRIDLE CLUB NEWS
The Block and Bridle Club sent two delegates to the national convention in Chicago, which was held November 27-30. The two delegates were Thomas E. Hayden, Jr., an animal husbandry senior from North, S. C., and Joyce E. Cox, an animal husbandry junior from Loris, S. C. The delegates had a very good trip with the club paying most of their expenses. They particularly enjoyed visiting the National Livestock Show.

AG. EC. CLUB BECOMES A.F.E.A.
The club formerly known as Agricultural Economics Club here at Clemson is now STUDENT SECTION OF AMERICAN FARM ECONOMIC ASSOCIATION and shall be known as AFEA.

This change has been brought about by the club having received its National Charter and also having received its own official key. The function of the club shall remain as in the past: to promote interest and fellowship among students majoring or interested in Agricultural Economics.

At present, the club is trying to secure a permanent Club Room and plans are being made to have a party in honor of the students graduating in January.

A cordial welcome is extended to all Agricultural Students planning to major in Agricultural Economics to contact any member of the officers or Dr. J. M. Stepp about joining the club.

The officers for this school year are: Carl D. Lewis, President; Donald (Donk) Moore, Vice President; J. L. Madden, Treasurer; Laurice F. Rhem III, Secretary, and Dr. J. M. Stepp, Advisor.

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THE AGRARIAN
COATS REPRESENTS A.T.A. AT KANSAS CITY

W. G. Coats, a junior in V.A.E., represented the Clemson College Chapter at the National Alpha Tau Alpha Convention at Kansas City, Missouri. Mr. Coats left Clemson by train on Sunday, October 9 and returned Wednesday, October 12. Each year Collegiate Chapters are invited to send delegates to the National Convention paying their transportation to and from the convention. Although primarily a representative to the National Alpha Tau Alpha Convention, Mr. Coats also participated in some of the activities of the National F.F.A. Convention.

Alpha Tau Alpha, a National Professional Agricultural Education Fraternity, is an organization on college campuses composed of young men in training to teach Vocational Agriculture. Members are selected on the basis of their scholastic abilities, leadership, and their desire to contribute their utmost to Vocational Agriculture.

At the last meeting of the Kappa Chapter, two members were formally initiated into the organization. These two men were J. C. Keaton, a junior in V.A.E., and Sherwood M. Miller, a sophomore in V.A.E. Old members include W. G. Coats, O. T. Price, Jr., Sam Hair, Carl Stoddard, and E. L. Gerald. Mr. B. H. Stribling is the chapter advisor.

CLEMSON F.F.A.

The Clemson Collegiate Chapter of Future Farmers of America is composed of members of all four classes who are majoring in Vocational Agriculture Education. This year the Chapter has 36 members. Its officers for first semester are: President, Joe Watson; Vice-President, O. T. Price; Secretary, Danny Dantzler; Treasurer, Carl Stoddard; Sentinel, Bill Page; Reporter Sam Hair; Advisors, Mr. F. E. Kirkley and Mr. W. C. Bowen.

Some of the activities of the Chapter thus far this semester are: At the second meeting the Chapter had an initiation of the Greenhanded, at the third meeting Mr. Stribling and William Coats spoke on the trip to the National F.F.A. Convention at Kansas City. The Chapter had a joint meeting with F.T.A. in December and Mr. Ruggles of Daniel High School spoke. The Chapter had an exhibit in the Agricultural Fair last October.
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Dairy Exhibit

B. L. Ragsdale, Student Chairman

The Dairy Club participated in the Agricultural Fair by presenting exhibits which portrayed the theme "Preparing for a Career in Agriculture". The dairy industry laboratory of the new Food Industries Building was used for the first time in displaying the exhibits.

A "Sellabrand" advertising unit was the first exhibit seen on entering the lobby of the dairy industry. This device consisted of a movable paper milk carton connected to a tape recorder, which welcomed people to the dairy exhibits through the voice of Prof. B. E. Goodale. Another exhibit, the Clemson bull stud, was presented to the public through a series of pictures depicting several sires with their daughters. The stud has been one of the factors in improving dairy cattle in S. C.

Winner of the third place award for individual exhibits was an exhibit depicting the various stages through which milk is processed to make the famous Clemson Blue Cheese. Next the visitors approached an exhibit entitled "Growing with the Dairy Industry in S. C." Enclosed in a pen of high quality alfalfa hay was a young heifer calf, and above the pen was a picture of a mature Holstein cow. This exhibit represented the industry's growth from an infant to the mature stage. The final exhibit in the lobby was a display of careers open to dairy graduates. These careers included all vocations from farming to dairy manufacturing, management, and advertising.

One of the most interesting parts of the dairy exhibits was the display of the new equipment in the dairy laboratory. This lab has not been completed, but one of the most interesting pieces of equipment was an ultra-modern pasteurizer which is the only one of its kind in an agricultural college. In a rear room of the lab an exhibit showing some of the tests which insure the public that every bottle of milk is a safe, clean, wholesome product.

The Dairy Club hopes that this exhibit enlightened the public as to the careers in dairying. The faculty members of the Dairy Department and the Dairy Club members did an excellent job in preparing and presenting their exhibit to the public.

Pre-Veterinary Medicine

Jim Scalf, Student Chairman

The students studying Pre-Veterinary medicine at Clemson College are organized under the counsellorship of Mr. J. R. Cook of the Animal Husbandry Department. With his assistance, the Pre-Veterinary students presented a display at the Agricultural Fair. The theme of the display was to present the advantages offered in a career of Veterinary Medicine. Although Clemson College does not offer a degree in Veterinary Medicine, the two year Pre-Veterinary course is offered and prepares a student for entry into the School of Veterinary Medicine at the University of Georgia.

The Pre-Veterinary display was divided into three sections. The first section included a display of medical instruments used by veterinarians in general practice. Many of the instruments were familiar to visiting farmers and animal breeders. The variations of sizes and unique construction of many instruments created much interest with students and other visitors to the Ag. Fair.

The second section of the display presented a large collection of different medicines used in the prevention and cure of animal diseases. Most of the popular animal medicines were represented and also many new medicines that have only been released to the public in recent months. There was great surprise expressed by many of the visitors in finding out that animals are treated with many of the same medicines that are used in the treatment of humans.

The third part of the display was devoted to the displaying of information booklets. The booklets included information on the prevention and cure of many common diseases. Some of the booklets described the new medicines that were presented and the uses of medicines. All visitors were offered the booklets, and hundreds of the booklets were distributed in that manner.

Throughout the entire Ag. Fair, one of the Pre-Veterinary students was at all times in attendance at the display. The student explained and answered all questions pertaining to a career in Veterinary Medicine. It is the hope of the Pre-Veterinary students that the public is now more informed of the great advantages offered in the field of Veterinary Medicine.

Thanks go to Prof. J. R. Cook and the pre-veterinary students whose work made this exhibit possible.
What’s in the Bag?
Seed Certification

V. A. Rogers, Student Chairman

The Seed Certification Department at Clemson is headed by Mr. Robert H. Garrison. Mr. Garrison is also secretary and treasurer of the South Carolina Crop Improvement Association and recently at the annual International Crop Improvement Association meeting at Winter Haven, Florida he was elected president of this association which includes all of the United States and Canada. He organized Seed Certification work in South Carolina in 1946 and now is Head of Seed Certification—Foundation Seed Department at Clemson. This program has meant much to progress of agriculture in South Carolina and is recognized as one of the outstanding Seed Certification Agencies in the United States.

The purpose of the seed certification display in the Agricultural Fair was to maintain and make available to the public information about the high quality seeds and propagating materials of superior varieties so grown and distributed as to insure genetic identity. Only those varieties that contain superior germ plasm are eligible for certification. Certified Seed is high in varietal purity and of good seeding value.

Varieties eligible for certification have resulted either from natural selection or through systematic plant breeding. In either case without a planned method for maintaining genetic purity, there is grave danger of losing varietal identity.

Varietal purity is the first consideration in seed certification, but other factors such as weeds, diseased, viability, mechanical purity, and grading are also important. One of the most effective methods of preventing the wilder distribution of weeds is to plant weed-free seed. Adverse effects of plant diseases can be reduced by planting clean seed from disease-free fields. Properly cleaned and graded seed is easier to plant and gives more uniform stands.

So this exhibit was displayed with the idea of promoting to the farmer not only a way of maintaining the genetic purity of superior crop varie-
ties, but also reasonable standards of seed conditions and quality. Mr. R. H. Garrison, Head of the Seed Certification Department, should be commended for this enlightening exhibit.

The AFEA and Rural Sociology at the Agricultural Fair

Carl Lewis, Student Chairman

The Agricultural Economics and Rural Sociology Department tried to show through their exhibits what a "Career in Agriculture" would have to offer a person in the form of an occupation after receiving a B.S. degree in this field.

We began this by having a model tobacco warehouse. One choosing to specialize in Marketing could easily find himself working with farmers, tobacco buyers and warehousemen if he chose to work with Price Marketing Service of USDA.

The method of packing watermelons for rail shipment using the crosswise pack was used to stress the Field of Research, as was the milk vending machine. Both of these exhibits have been tested within this state and have shown how they both could help make money for the farmer.

Rural Sociology stepped forth with the exhibits of two farms; one showing the lay-out before good farm practices and community environment were considered and the other showed the lay-out after one had educated himself on good farm practices and had taken beautification of his home and farm, along with the farm buildings, into consideration from a community welfare standpoint.

A display of two market baskets containing the items bought by the average family for a week were used to show how prices change and to inform one that the field of statistics was a good career and in need of individuals wanting to become statisticians.

The final display was of publications that are published by the Agricultural Economics Extension Service on the research problems they have undertaken and completed and a map of South Carolina was displayed showing the locations of the various Co-ops in the state and the services they have available to the farm family. Credit is due to the faculty advisers and the students who worked on this exhibit for the good showing it made.

A WORD TO THE WISE

—ADVERTISE—

IN THE AGRARIAN

JANUARY 1956

The Agricultural Teacher and his Job

Joe Watson, Chairman

In the recent Agriculture Fair, the Collegiate Chapter of Future Farmers gave a brief outline of the training and activities of a vocational agricultural teacher. Agriculture teachers of South Carolina represent the largest group of Clemson men in the teaching profession. Over 90 per cent of the white teachers of agriculture in South Carolina are trained at Clemson. How are agriculture teachers trained? What are the duties of a teacher in vocational agriculture? These and similar questions were used as the theme for the F.F.-A. exhibit.

The first phase of the exhibit showed the pre-service training at Clemson for a prospective teacher of agriculture. This was divided into three main divisions: (1) Arts and Sciences, which included such courses as Math, Chemistry, English and Government; (2) Agriculture, which includes courses in Farm Crops, Biology, Feeds and Feeding and Fertilizers; and (3) Education, which includes Educational Psychology, Health Education and Problems in Adult Education. These are only a few of the requirements for vocational agriculture teachers. Directed teaching, often spoken of as Practice Teaching, is provided for at 24 high schools in various areas of the state. These training centers, as were shown on a map, provide each senior with six weeks of actual teaching.

The second phase of the exhibit showed some of the ways an agriculture teacher can improve himself professionally. In the summers he can take short courses or graduate work at Clemson. During the school term, graduate work is offered at Clemson, Florence and Blackville. He can attend meetings and workshops designed for agricultural workers. He is provided with teaching information from the Agricultural Education department, Extension Service, and Experiment Station.

The third phase of the exhibit showed the location of vocational agricultural departments and various teaching devices used by teachers. At present there are 202 departments and 222 white teachers in
Botany Exhibit

J. A. Richardson, Chairman

The botany exhibit followed the general theme of the fair—the preparation of a career in agriculture. The science of botany was presented to the classroom and in research. It was shown to begin with that botany is the fundamental science in agriculture. This fact was represented throughout the whole exhibit.

Models of plants and plant parts were used to show the structure of plants. Microscope were set up to show the parts in more detail and in true to life forms. The activities that take place in plants were shown by slides and charts.

The four major branches of botany as shown by the exhibit are plant pathology, microbiology, plant physiology, and herbicides. Each of these were broken down and their practical uses were shown.

The activities under plant pathology were shown to be research, academic, extension, and industrial. These activities were explained and illustrations were shown to give some idea as to what each one covers. These exhibits showed the field of studying plant diseases to be advancing rapidly.

Next came the exhibit on microbiology, or bacteriology. The importance of sanitation was stressed through exhibits on the proper methods to keep out unwanted bacteria. Not only the desirable, but also the undesirable bacteria were recognized. Soil microbiology was shown to be of great importance to the whole science of agriculture. The industrial uses of bacteriology were also shown.

A portion of the Botany Exhibit showing various equipment used in Botany courses.

The exhibits concerned with plant physiology covered some of the modern methods of studying plants and their activities; for example, radioactive tracers are being used. Mineral nutrition is an important field to all forms of life because all forms of life depends on plants.

Some of the new developments in herbicides were shown. This field has many possibilities as was shown by the new growth in the field. Charts and exhibits showed new developments in weed control and in defoliants.

Dr. R. W. Rutledge was faculty adviser and was in charge of the exhibit. He should be congratulated for presenting the science of botany and its possibilities to the public in such an interesting exhibit.

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GRASS

Grass is the forgiveness of nature, her constant benediction. Fields trampled with battle, saturated with blood, torn with runs of cannons, grow green and carnage is forgotten. Streets abandoned by traffic become grass grown like rural lanes and are obliterated. Forests decay, harvests perish, flowers vanish, but grass is immortal.

Its tenacious fibers hold the earth in its place and prevent its soluble components from washing into the wasting sea. It invades the solitude of deserts, climbs the inaccessible slopes and forbidden pinnacles of mountains, modifies climates, and determines the history, character and destiny of nations.

—By Senator John J. Ingalls

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AG. FAIR (continued from page 4)

Two guessing contests were pro-
vided for visitors. The Poultry De-
partment gave a dressed turkey to
Mr. Harold Cochran of Anderson for
guessing the number of grains of
corn a rooster ate.
The Agronomy Department gave a
half bushel of popcorn to Mrs. R. E.
Batters of Clemson for guessing the
amount of cotton seed in a bag of
cotton.
The children were not neglected.
Mexican burros, complete with sad-
dles, were provided for the young-
sters. There was a never ending
flow of children to enjoy the free
burro rides.

The fair could not have met
with such a measure of success without
the support of the entire faculty. We
are especially grateful to Dr. M. D.
Farrar, Dean of Agriculture, Dr. J.
W. Jones, Faculty Chairman, Dr. W.
B. Boykin, Faculty advisor, and Prof.
T. L. Senn, Faculty advisor.

Forestry Exhibit
E. B. Collard, Chairman

This year's theme of the Forestry
department was "Glimpses into Vari-
ous Branches of Forestry." The dis-
play of wood and other forest prod-
ucts was arranged on three tables.
The first and second tables exhibited
the main branch of forestry, the di-
rect products from the forest. They
exhibited the most important woods
at present. Woods from foreign
countries were also displayed. The
third table displayed the various sec-
ondary products stemming from the
branch of wood technology and also
exhibited there were the instruments
used in forest mensuration. A series
of background pictures outlined the
various steps in logging engineering.
They showed the different opera-
tions used from forest to mill. Also
displayed were posters on the im-
portance of fire control and exam-
les of wildlife and their influences
in the forest.

Dr. K. Lehotsky and the pre-fore-
stry students should be commended
for their work on this exhibit.

Woman (opening the door of the
refrigerator and finding a rabbit sit-
ting inside): "What are you doing in
here?"

Rabbit: "This is a Westinghouse
isn't it?"

Woman: "Yes."

Rabbit: "Well, I'm just westin."

As the new barber nicked the one-
armed stranger for the second time,
he said, "You have been here be-
fore?"

"No," said the stranger sadly, "I
lost this arm in a sawmill."

Leo: "I saw your car parked on a
side road last night. Tire down?"

Joe: "Nope, didn't have to."
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ALPHA ZETA—Our National Honorary Ag. Fraternity

Alpha Zeta, the beginning and the end. These letters represent the span, the substance, and all absorbing aim of the organization of the Fraternity of Alpha Zeta. The Fraternity of Alpha Zeta had its beginning at the College of Agriculture of Ohio State University on November 4, 1897. It was founded by C. W. Burkett and John F. Cunningham, who along with 10 other charter members, established the Townsend Chapter at Ohio State University.

This fraternity grew out of the realization of a need for a fellowship among students whose interests lay in the field of Agriculture. Alpha Zeta was not fashioned after the so-called Social Fraternities, nor the Honorary Societies. The men chosen for membership in Alpha Zeta are chosen for their high standing, good scholarship, and for the possession of those traits of character and person-

By Elbridge Wright, Jr.

ality that combine to make a man of outstanding, upright character.

To be eligible for membership in Alpha Zeta, the person has to be enrolled in some technical phase of Agriculture at a college or university which has a chapter of Alpha Zeta. He also must have completed at least one-half academic years of his four year college course and have at that particular time an average of his grades that will place him in the upper two-fifths of his class. As stated heretofore, he must also show traits of leadership and possess certain qualities that show him to be a person of high character.

The chapter of Alpha Zeta in South Carolina is located at Clemson College. This chapter was founded at Clemson on April 19, 1930. This was the 38th chapter of Alpha Zeta in the United States. There are, now in the United States, a total of forty nine chapters of Alpha Zeta in the various colleges and universities.

The chapter here at Clemson sponsors various projects each year in trying to promote the field of Agriculture. One of the projects is the awarding of a cash prize, each year, to the sophomore majoring in some phase of Agriculture that has the highest grade point ratio. Another, and probably the most important event that Alpha Zeta sponsors, is the biennial student Agricultural Fair. Alpha Zeta serves as the coordinating unit for the fair, as well as helping in many other ways. The members of Alpha Zeta were greatly pleased with this years’ Agricultural Fair since it was widely acclaimed as being the most successful

(continued on page 24)

JANUARY 1956

TWENTY-ONE
Old rebel to man about to jump off a cliff:

Rebel: Well, think of your wife and your mother and father.
Jumper: I don't have any.
Rebel: Well, think of your wife and children.
Jumper: I don't have any.
Rebel: Well, think of General Lee.
Jumper: Who is he?
Rebel: Jump, you damn Yankee.—

* * * * *

Housemother: "Why didn't you call me when he wanted to kiss you?"
Girl: "I didn't know you wanted to be kissed."

* * * * *

Stopping at the first house on his famous ride, Paul Revere cried, "Is your husband home?"
"Yes."
"Then tell him to dress and fight the British."
At the second, third and fourth houses he repeated the conversation. Stopping at the fifth house he cried again: "Is your husband home?"
"No."
"Whoa." * * * * *

A lawyer was attending a funeral. A friend arrived late and took a seat beside him, whispering, "How far has the service gone?"

The lawyer nodded towards the clergyman in the pulpit and replied, "He just opened up the defense." * * * * *

Farmer Brown had a new mule that he couldn't teach or tame, so he took the animal to a professional mule trainer.

The trainer immediately grabbed a two-by-four and beat the mule unmercifully about the head and along the flanks.

"Stop!" cried Farmer Brown. "Are you trying to kill my mule?"

"Listen, mister," said the mule-trainer. "First thing you got to do in training a mule is to be sure you got its attention."

It was the worst storm on record. Finally the dam burst and a raging torrent forced the townfolks to flee to higher ground. From the hill as they looked down, they noticed a straw hat float slowly downstream for 50 feet or so. Then the hat stopped, turned around and made its way upstream a similar distance. After this performance had been repeated several times, one of the group asked:

"What makes that hat act so darn funny?" And a boy replied:

"Last night I heard Grandpa say that 'come hell or high water' he was going to mow the lawn today."

* * * * *

Mother, putting junior to bed:
"Shh — the sandman is coming."
Junior: "Fifty cents and I won't tell Daddy."

* * * * *

Pat, a truck driver, stopped suddenly on the highway. The car behind him crashed into the truck and its owner sued the Irishman.

"Why didn't you hold out your hand?" the judge asked.

"Well," replied Pat, indignantly, "if he couldn't see the truck, how could he see my hand?"

* * * * *

Professor: I won't begin today's lecture until the room settles down.
Voice from the rear: Why not go home and sleep it off.

* * * * *

It seems that there was once a boy named Albert Marshall who after dating a girl for about six times finally got up enough courage to give her a light peck on the cheek.

"Am I the first girl you ever kissed?" she asked.

"Yes" said Albert.

"Well," said the girl, "The other girls haven't missed anything."

* * * * *

If ignorance is bliss, why aren't there more happy engineers?

She: "Don't you wish you were a barefoot boy again?"
He: "Not me lady, I work on a turkey farm."

* * * * *

"That's a pretty good looking car. What's the most you ever got out of it?"
"Nine times in three blocks!"

THESE STUDENTS MADE IT WORK

(continued from page 22)

partmental clubs and instruct them in the theme of the fair and try to get them to spotlight that theme in their exhibits. He also passed down all other information from the "wheels" to the departmental student chairman.

Morgan is a dairy senior from Bamberg, S. C. His campus honors include High Honors, Phi Kappa Phi, and Who's Who.

ALPHA ZETA

(continued from page 21)

fair ever held at Clemson. The attendance at the recent fair was estimated at approximately 5,000.

Alpha Zeta also is theoretically in charge of the student agricultural publication, The Agrarian. The Agrarian is the oldest student publication on the Clemson College campus, and is also ranked as one of the best. It has been the tradition in past years for Alpha Zeta to elect from its members the co-editors of The Agrarian.

The chapter of Alpha Zeta is probably one of the most active chapters in the United States. At the last Biennial Conclave, this Chapter ranked well up among the most active chapters, and it is our hope that we will some day win the award for the most active chapter of Alpha Zeta.

We, of Alpha Zeta, hope that in some way, through our actions or our character, that we may serve to promote the field that we so firmly believe in. It is our goal to endeavor to make for mankind, through our pursuit of the agricultural field, a better world in which to live.
Every farm youth has a burning desire to tackle the really big field jobs... be the "boss" on a corn picker, combine or baler. But—it seems that Dad usually takes over where these machines are concerned. And—he's right in doing so... unless there's a machine for the job that requires no extra strength to operate... no intricate adjustments or years of experience... yet delivers the crop in its finest form, whether that be husked ear corn, clean grain or neat, square bales.

Typical of just such a machine is the new low-cost, farm-size Case "130" Baler. Its simple construction and automatic operation require no effort, practically no skill. Yet, it makes smooth, sliced, twine-tied 14 x 18-inch bales just right in density for easy handling, storage and feeding.

See your Case dealer about the modern, amazing Case "130"... the big-tonnage, wire or twine-tie "140"... and other hay machinery.

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* R. J. Reynolds Tobacco Co., Winston-Salem, N. C.

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