

The Technician

Published Weekly by the Students of N. C. State College of Agriculture and Engineering

Mail Service From Intercollegiate Press, New Student, College Humor

Member N. C. C. P. A. and N. C. P. A.

Vol. 10, No. 4

STATE COLLEGE STATION, RALEIGH, N. C., OCTOBER 12, 1929

Technician Phone 3545

Students' Agricultural Exhibits Will Be Held At North Carolina Fair

Eight Departments of Agricultural School Represented

VALUABLE PRIZES TO BE GIVEN BY RALEIGH FIRMS

Judging Contests Will Be Held on the Campus During the Week Following the Fair—State College Tent Will Be Located Directly Behind Main Exhibit Building.

The opening of the gates of the Greater North Carolina State Fair next Monday will also usher in the Ninth Students' Agricultural Fair of the North Carolina State College, which is being held in connection with the State Fair, as it was last year, according to Joe Ellis, president.

The big tent housing the Students' Fair will be found directly behind the main exhibit building. Citizens of North Carolina will have the privilege of getting a bird's-eye view of one of many departments that they control when they see the eight different departments of the Agricultural School of the North Carolina State College displaying their arts during the six days and nights of the Big State Fair.

Besides the Agronomy Department, Jack Swain, chairman, the Animal Husbandry with John Wilkins chairman, Poultry with L. J. Fourie chairman, Biology with B. J. Kaston chairman, Horticulture with W. K. Bailey chairman, Vocational Education with L. G. Matthis chairman, Agricultural Economics with L. N. Ippock chairman, and Forestry with D. G. Morris chairman, there will also be individual farm exhibits and collective farm displays.

There will be no parade this year as in former years, but instead this issue of The Technician will be devoted to the Students' Fair. Also, there will be a general information booth located in the tent, where any questions concerning the fair or any part of the agricultural school will be answered.

State Rifle Team Will Be Selected At Meeting Monday

Lieutenant Elms will start work on this year's rifle team Monday afternoon at the army, at 4 o'clock. It is expected that about 200 men will be out for the team. Any student registered at State College is eligible to try out.

The classes and instruction in marksmanship will be held on Tuesday, Wednesday, and Thursday afternoons as soon as Lieutenant Elms gets a line on his men. Each R.O.T.C. man is urged to come out for the team, because the instruction he will get will help him later on in his military work.

Between now and Christmas inter-company shoots will take place, one match being scheduled for November and another for December. The first five high scorers in each company will be counted. After the Christmas holidays matches with other schools and colleges will start, and that is something to look forward to, because Lieutenant Elms has sent out challenges to every college and university in the country that has a rifle team. That brings the list up close to a hundred challenges. Already he has received several replies wanting a date for a match.

Poultry Industry Rated Fourth In Agriculture Field

Dr. B. F. KAUFF

The Poultry industry produces the fourth largest single agricultural crop in the United States, which amounts to more than one and a quarter billion dollars annually. In North Carolina, according to Mr. Parker of the State Department of Agriculture, the poultry crop amounts to \$37,500,000 annually.

The industry breaks up into many lines of work, any one of which would occupy one's whole time if he became a specialist in this particular line. The hatchery unit can be profitably made as high as 100,000 egg capacity in any county in North Carolina, as it is estimated that every county is capable of absorbing 200,000 baby chicks. Every county should have a central hatchery, where farmers could have their chicks hatched and sell the surplus hatching eggs. Production of pullets for layers and breeders is a field in which the supply is far short of the demand. Broiler and capon production would keep one busy every month in the year, and especially if he used the modern battery method. Egg-production is a safe and

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POLK HALL IS RANKED AMONG MOST COMPLETE IN ANIMAL HUSBANDRY

Polk Hall, the new Animal Husbandry Building, is one of the most complete buildings of the kind in the country. In addition to classrooms and offices, it provides the necessary laboratories and equipment for thorough instruction in every phase of Animal Husbandry, including the most modern methods of handling all animal products and in Dairy Manufacturing.

The space devoted to Animal Husbandry is equipped to instruct students in the profitable types of farm animals, how to handle them so as to get the best returns, how to select breeding stock, and how to feed all classes of farm animals. The students in this department feed and prepare animals for the block, actually doing the slaughtering, and cutting the meat to be sold in a market which is conducted by the students.

The dairy barns contain more than seventy registered cattle, representing four breeds. In many ways the herd of dairy cattle owned by this institution is one of the best to be found.

The dairy is especially well equipped with modern machinery to give instruction in the testing of milk and its products, creamery butter-making, ice-cream making, and in the handling of market milk. There is adequate refrigerating equipment for cold storage of meats as well as dairy products.

A typical herd of Berkshire and

ALPHA ZETA FRATERNITY ORGANIZED HERE IN 1904

The North Carolina Chapter of the Alpha Zeta Honorary Agricultural and Professional Fraternity is beginning its twenty-sixth year on State College campus, having been organized and installed here in January, 1904.

Township Chapter, the mother chapter of Alpha Zeta, was founded at Ohio State University in 1897 by Chas. Burkett and J. F. Cunningham. There are now thirty-five chapters in thirty-six states, only one chapter to a state and that in the agricultural college of the state, whether it be combined as a university or separate as an agricultural college.

Alpha Zeta is first and last for the promotion of better agriculture, and it strives to work in this direction at all times, both here at N. C. State and in the other states.

PRESIDENT AG. FAIR



JOE ELLIS, JR.

SECRETARY AG. FAIR



P. J. F. PEPLER

Agriculture Engineering Great Field, Says Professor Weaver

Opportunities for graduates in agricultural engineering were never greater than at present, states Professor D. S. Weaver, agricultural engineer at State College. At the last meeting of the American Society of Agricultural Engineers an employment service was maintained, and with 33 excellent positions open, only 15 prospects were available from which to fill them. These positions were with such concerns as the International Harvester Co., John Deere Plow Works, B. F. Avery & Sons, Oliver Chilled Plow Works, the Portland Cement Association, and other trade associations and implement manufacturers.

Many state colleges and universities do not yet have departments of agricultural engineering, and neither extension specialists nor research workers in this field, in spite of the fact that tremendous progress in developing such work must be made.

Rural electrification offers another attractive phase in which agricultural engineering graduates can find opportunity for services.

109 MEN REPORT TO PRICE FOR MUSIC ORGANIZATION

Increase of 61 Over Previous Years, Due to Greater Interest in Music in High Schools

The number of men entering State College who have had previous experience in various musical organizations is much larger this year than ever before. Three years ago 48 freshmen had learned something about music in the high schools. Last year there were 77, and this year 109 freshmen have gone out for the various musical organizations in the college.

Major Price, who is in charge of State's musical activities, says that this steady increase is due to the work in music that is being done in the high schools now. Ten years ago there were practically no glee clubs, orchestras, or bands in the high schools, while now almost every high school in the State has its own musical organizations.

State College is prepared to take up this work where the high schools leave off. The college orchestra, glee club and band provide ample field for any one interested in any phase of music.

The band this year is larger than ever before, and many of the new men show real talent. Major Price has picked out 27 of his best bandmen and organized a recording band, which he says will hold its own in competition with any band.

A.S.M.E. HOLDS MEETING; DISCUSS PLANS FOR YEAR

The Student Branch of the A. S. M. E. held its first meeting of the year October 8.

This meeting was in the nature of a business session. All business left over from last year and new business was discussed and turned over to the proper committees.

In order to get the society functioning smoothly as early as possible, it was decided to initiate new members Tuesday night, October 15. All M. E. Juniors and seniors are eligible for membership.

J. H. BEAUMONT HEADS HORTICULTURAL SCHOOL

Assisted by Professor G. O. Randall and Professor J. P. Pillsbury

Since last summer a year ago the Horticultural Department and the horticultural part of the North Carolina Experiment Station has been under the direction of Dr. J. H. Beaumont. Dr. Beaumont is a graduate of the University of West Virginia. After graduating at University of West Virginia, he took graduate work at University of Minnesota, University of Chicago, and Cornell. He received his M.S. degree and also his Ph.D. degree at the University of Minnesota. He was for a time Assistant Professor of Horticulture at the University of Minnesota. He took charge of the work here at N. C. State in the summer of 1928. Besides directing the affairs of the department, Dr. Beaumont teaches Pomology and related subjects.

In addition to Dr. Beaumont there came two other professors in the Department of Horticulture. G. O. Randall, Assistant Professor of Horticulture, teaches Floriculture, Plant Propagation, and Overculture and related subjects. Professor Randall is a graduate of the University of Arkansas. He received his M.S. degree from Ames, Iowa, and since then he has taken some graduate work at the University of Illinois. In 1924 he came to North Carolina as Extension Horticulturist for Eastern North

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Proof Picture Ready

Upperclassmen may see the proofs for their pictures at the Agromock office beginning Monday. Attend to this matter early.

E. H. ROBERTS, Editor.

Agriculture Men To Hold Annual 'Barn Warming' In Thompson Gym On Nov. 2

945 Students Here To Take Course In Poultry Science

N. C. State College Poultry Department is composed of three distinct divisions: the Extension service, Teaching, and the Research division. This department is rendering a great service to North Carolina, and to the other forty-seven states.

During the school year of 1928-29 the teaching staff had under their instruction 945 students. This includes all members from the freshman class to graduate students. And in this department, especially, there are boys from most every section of the United States, and two from Africa.

The greatest consideration possible is given to the selection of courses in this department, which will be of the greatest practical value to the student after he leaves college. A few of the courses offered to students in agriculture are: Farm Poultry, Mating and Breeding, Marketing Farm Poultry, Incubation and Brooding, Diseases of Poultry, Poultry Judging, Poultry Nutrition, Poultry Plan Management, and many other courses for those students desiring a further study in any particular division of poultry.

Over 8,000 letters were written last

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CHAIN TO SPONSOR DAD'S DAY PROGRAM TO BE HELD OCT. 17

Following the custom set by the Golden Chain of last year, State College is planning to have an even greater Dad's Day this year than before. This event is again sponsored by the Golden Chain.

Official Dad's Day is set for October 17, the day of the Wake Forest-State game, and is also during the week of the State Fair. Many additional features have been added to the program this year and are expected to go over with huge success.

The Golden Chain society has made special plans this year to write letters to the father of each boy on State's campus. These letters will be written and placed in envelopes and will be distributed at the dining-hall and cafeteria. The only thing the student will have to do will be to place a stamp on the letter, along with the address and drop it in the post box. All students are requested to mail one of the letters.

Special letters are being written to the dads of the members of the senior class, and also to the dads of the members of the football squad.

The fathers of the members of the football squad are being given special recognition by allowing them the seating arrangement in the form of seats back of the playing line, and it is hoped this will serve as an incentive to the players by having their dads see them perform.

The goal posts of the field will be

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AMERICAN FACE-BRICK ASSOCIATION TO HOLD MEETING AT N. C. STATE

Members of the Carolinas' Division of the American Face-Brick Association have decided to hold their next meeting at State College, on October 18th. The division includes all of the manufacturers of face-brick in North and South Carolina, Virginia, and Tennessee. Bruce Drysdale, vice-president of the Moland-Drysdale Corporation, Hendersonville, is chairman. Mr. Drysdale is also chairman of the advisory committee to the Department of Ceramic Engineering at State College.

The session will last one day and the group will be given a luncheon at the College and will also be the guests of the Athletic Department at the football game between the State and Duke freshmen in the afternoon.

Meredith Girls To Be Here, Dressed As Farmerettes

CHAIRMAN EARL MEACHAM PLANS MANY FUNNY ACTS

I. A. McLain Heads State College Agricultural Club and Is Assisted by E. T. Frisbie, Chairman of Decorating Committee—Decorations Will Be "Regular Old Country Style."

The annual "Barn Warming" which is held each year by the agriculture students of North Carolina State College will be held Saturday night, November 2, I. A. McLain, president of the students' Agricultural Club, has announced. This date was chosen for the "farmers' frolic" by the Ag. Club at the regular meeting, Tuesday night, October 8. The Frank Thompson Gymnasium, under the direction of E. T. Frisbie, chairman of the decorating committee, will be transformed into a miniature forest with pine cones, leaves, and everything a forest possesses that can be successfully used in making the interior of the gymnasium a suitable setting for such a gala occasion. Bales of straw will be arranged into inviting seats, where agricultural Romeos and Julietts may whisper romance under the able chaperonage of the artificial moon.

A "hog-calling" contest, beauty contest, and from 10 until 12 dancing to the strains of a dark-skinned orchestra will furnish the entertainment for this occasion. Besides these entertainments, it is said that Earl Meacham, chairman of the entertainment committee, has a bag full

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Seerley Delivers Series of Lectures On "Sex Hygiene"

Dr. F. N. Seerley, Dean of the International Y. M. C. A. College, Springfield, Mass., delivered a series of interesting lectures in Pullen Hall. The subjects of his lectures was "Sex Hygiene."

Dr. Seerley's first lecture was entitled "Gathering Building Material." This lecture had to do with the marvelous structure of the human body. The Dean showed that everything we ever learned is stored somewhere in our brain. This is the building material out of which we construct our personalities.

The second lecture dealt with the subject of "Manhood." In this lecture Dr. Seerley clearly showed how many fallacious ideas are hitched up with the question of sex and of manhood. Every man left Pullen Hall with a greater conception of what manhood in its finest essence meant.

In the third lecture Dr. Seerley dealt with the "Road of Life." In this lecture Dr. Seerley traced the development of a man through life, showing how the great changes take place and mould his mental attitudes.

The fourth lecture was on "Womanhood," and was by far the most interesting and worth while of all. In this lecture Dr. Seerley gave every man a frank and open address on the greatest values of life, that of living in such a way as to some day be worthy of some pure woman. While this lecture was idealistic in character, it had its foundation in fact.

Agricultural Department Aims As Seen By State Professors

Conservation of the Soil
By B. F. Brown

The soil has always been and still is man's most important resource. Up to the time, a couple of centuries ago, of the discovery of the use of coal and other similar products of the earth for the production of energy, mankind's main source of energy was directly and indirectly through the activity of sunlight on plant life. Whether the energy was expressed through man's own muscles or those of domestic animals, the source of energy was the same. The soil is still the most important agent for the transformation of energy useful to man. Farming may thus be defined as the business of making the most efficient use out of sun energy in its action on the chlorophyll of plants. And to make this most effective use, the soil is an indispensable agent. Without soil of the right composition and in the right location, plants can have no proper environment in which to grow.

The soils of the world have been grossly neglected. Until recent years the only cultivated soils that have been preserved in their original powers have been those, such as the Valley of the Nile affords, that have been sustained by overflows and other similar means. In all the world where man has worked upon the soil the soil has steadily declined. Many of the older soils of the world where

AG. FAIR VICE-PRESIDENT



A. D. STEWART

agriculture is centuries old have been utterly ruined from ignorance and neglect. The decline in the powers of the soil of Italy was no small factor in the decline of the power of the Roman people.

The people of America are confronted with the last great opportunity either to exploit and waste or else to use and preserve a great tract of fertile soil. The area comprised in Continental United States is one of only three similar large areas of fertile soil country, with satisfactory rainfall, climate and other necessary factors, to be found in the entire world. It can be preserved as a long-time home of a large number of people, but to do this the soil must be guarded and protected.

At the present time while the population is increasing the soil is being allowed slowly to decline. For example, it is estimated that more than 400,000,000 tons of the richest soil within its drainage basin is being carried to the sea annually by the Mississippi River. Again, it was estimated some years ago that in the states south of Pennsylvania 3,000 square miles of fertile soil had already been destroyed as the result of farm denudation and careless agriculture, and that the destruction of the soil was proceeding at that time at the rate of 100 square miles per year. In spite of the efforts of trained agriculturists, any ordinary observer can see that this waste is still occurring, though perhaps at a slower rate.

With an increase in population the burden of the soil will steadily increase. No nation can maintain itself at a high state of civilization on a declining soil; and any generation that passes on to its descendants a poorer soil than it inherited is guilty of robbery, for it is consuming the national capital without compensation.

It is the peculiar function of statesmanship to envisage social and economic problems from the point of view of the welfare of the race. By this test statesmanship has no more serious problem than the utilization and conservation of our soils.

Field Crop Diseases

DR. S. G. LEHMAN

One of the most important studies in plant disease prevention is directed toward the reduction of losses resulting from poor stands of cotton. Practically every cotton farmer has had discouraging experiences in obtaining a good stand of cotton. Prolonged periods of summer-like weather in early April seem to say that seed-time has come earlier than usual, and the urge to plant is accentuated by anticipation of the large amount of work to be done in putting in the spring crops. Moreover, early planting is recommended as one means of making a crop before the boll weevil begins his annual summer activity. Consequently much cotton is planted before the soil has become comfortably warm to the seed of this semi-tropical plant. In the unhelpful environment of a cool, wet soil the cotton seed germinates and grows very slowly, and large numbers of the seedlings become sickly and finally perish. Thus stands are broken, and it frequently becomes necessary to replant numerous barren areas, and even to plant over entire fields.

It is not the cold, wet weather in itself that kills the cotton seed. Most agricultural soils contain certain fungi capable of making a good meal of a juicy cotton seedling. These fungi are not numbed by the cool, wet soil to the same extent as are the cotton seedlings. They attack the chilled seeds and destroy many of the seedlings before they have come through the ground. As a result, stands are broken and replanting becomes necessary.

A method of preventing this loss by applying poison dusts to the surface of the seeds before planting is being sought. This is done by the simple operation of shaking the seed and dust together in a tight can for a few minutes. The idea is that the activity of the fungi will be retarded until the cotton seedling has become established.

Different lots of seed have been dusted before planting with a number of poisonous materials such as sulphur, copper sulphate, copper carbonate, formaldehyde, mercuric chloride, and several commercial dusts made for seed treatments. The results have been highly encouraging. Increases in stand of seedlings ranging up to 100 per cent have frequently been obtained. The better stand of seedlings makes more uniform chopping possible, reduces the number of missing hills, and increases the yield proportionately. The treatments have given greatest increases on cotton planted one to two weeks earlier than the usual planting date and subjected to cool soil conditions.

Study Oat-Smut Control

A number of other plant disease problems are being investigated. Various chemical dusts are being tested for control of oat smuts. These treatments have given yield increases amounting to 60 per cent over untreated seed oats. Control of wheat-covered smut is being studied, with a view to finding better control methods; and wheat varieties are being tested to determine their relative resistance to rust and to smut.

Tobacco mosaic is widespread and causes large losses in the State. Field and greenhouse tests are being conducted to determine the channels through which this disease is spread and how it may be avoided.

Several seed-borne diseases occur on soybean. These are not readily controlled by seed treatment. Moreover, they appear to be on the increase, and unless greater care is taken to avoid or control these diseases, it will soon be difficult to obtain seed free of them.

Insect Pest Control

Insect pests are increasing in North Carolina. The grower of any crop well realizes this, since every crop and every flower or shrub is attacked by many such pests. Forests and fields all have serious pests, nor is the household immune to their depredations.

Medical science has made great strides in practically wiping out many diseases, such as yellow fever; has greatly reduced smallpox, malaria, tuberculosis, and other diseases, and seems to be on the threshold of great discoveries in treatment and prevention of cancer. Many people will then ask why it is that insect pests are increasing in spite of the research being done. The problems of insect pest control are often extremely difficult on account of the (1) rapid increase in numbers of the insects and the peculiar way they spend their lives. (2) Insects are increasing due to the killing of a great many of our bird friends. (3) Insects are also increasing, due to many pests gaining entrance from foreign countries, and (4) because of our system of agriculture (which is best) of growing certain crops in certain favorite areas. This furnishes pests with a large amount of their favorite food close at hand.

To control insect pests, field extension work in control methods is carried out with the cooperation of the county agents. Due to the vast problems, all demands cannot be met, and all problems have not been solved. Whenever possible, however, control is carried to the growers with the county agents through the medium of meetings, visits, letters, newspaper

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By FRED DIXON

The sports department regrets that it was unable to carry a story of the State-Clemson football game, played in Florence, S. C., yesterday; but the printers could not hold the page open until Friday night in order to get an account of the game. However, with odds against them, the State College Wolfpack will be in there fighting from the first whistle until the last and the Clemson Tigers will know that they have been up against a game and scrappy team from North Carolina when it's over.

It was also our desire to carry a story about the Carolina-Georgia Tech game that was played yesterday at Athens, Ga. At this writing it looks like Georgia Tech's winning streak will be broken, for Carolina has one of the strongest teams it has had in years, and Coach Alexander's Techs are not what they were last season.

A little bit more about the Wolfpack.

The great majority of football fans expected the Washington and Lee Generals to walk away with Gus Tebell's men, but how they were fooled! State had a much stronger team last year and the Virginians have a stronger team this year than last; but State was not scored upon this season as much as last fall.

It was a scrappy team that met the Generals, and one that the whole student body should be proud of. They were in there fighting—not for a quarter, but for four quarters. No use to relate the details of the game—that's history now.

State was minus one of the greatest line stars developed at this school in many years when Captain Lepo was unable to play yesterday. Lepo went into the Washington and Lee game minus 23 pounds, and he put up a whale of a game. There's no use joking or writing any further than this—State College has a captain that she can be well proud of off and on the field.

Fair Week!
Just those two words bring back memories of football games played on Thursdays of the State Fair week

period prior to 1925, and what games they were—State with Carolina. Thousands of people were there—bands, students, girls, bright colored banners—all were there. And now, after a lapse of many years, this picture will again be put on in West Raleigh when State and the Demon Deacons from Wake Forest play here Thursday afternoon.

Get ready, fellows! Fix up your Fords in red and white, get a date with your best girl, practice up on the yells, and let's make this game one of the best of the season.

Ball Melton has not been in any of the games so far this season, but this backfield flash is expected to don football tugs for this all-important game Thursday.

Duke's sophomores did not come up to expectations in the Blue Devils' first games of the season, but it was different in the Wolfpack camp—the sophs outplayed themselves.

Coach Drennan's baby freshmen (but they are far from that!) will

open the football season Friday afternoon with the Duke Blue Imps. Let's help the freshmen get started right.

With varsity hit by the continued illness of Captain Lepo, the freshman team will also be minus two of its chief line stars when they meet the Duke Blue Imps here Friday. Jim Stroupe, big 220-pound guard, has received a broken jawbone, and Reid Tull, all-state guard, has an injured knee, and their injuries are not expected to heal in time for the Duke game.

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Wolfpack and Deacons Play Here October 17

WILL BE FEATURE ATTRACTION FOR STATE FAIR WEEK

State Sophomores Will Bear Brunt of Wake Forest Attack

LEPO STILL ILL; MAY NOT BE IN GUS TEBELL'S LINE

First Big Five Test of Season for State; Band Will Be Diked Out in New \$1,800 Uniforms; Deacons Much Stronger.

The North Carolina State College football team will clash with the Demon Deacons from Wake Forest October 17 on Riddick Field. The game will mark the opening of what has been the annual football game played by State College on Thursday of the North Carolina State Fair. Prior to 1925 the game was played with Carolina, but when the old Fair Grounds were sold and where now stand State fraternity houses, the game was played at a later date. A crowd of between five and ten thousand is expected to witness the affair.

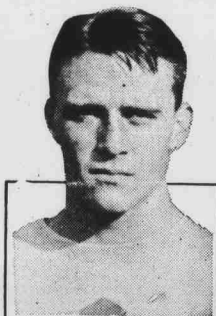
A feature of the game will be "Daddy" Price's new band. The band members will be diked out in their new \$1,800 uniforms and will make the football game a gala occasion. Several new band numbers and figures have been prepared by Director Price and will be ready for their initial performance.

Thursday's game will be the first test in Big Five circles for Coach Gus Tebell's outfit, and he will spend the three days left for him to get his team ready for the Deacons in ironing out the weak spots found in the Clemson game yesterday. He will spend much time in getting his line ready, for it is not expected that Captain John Lepo will start in the clash.

Lepo Under Doctor's Care
Captain Lepo was not in the game yesterday, having been sent to Kinston, N. C., for treatment, by the State coaches. Lepo has been suffering with stomach trouble for over a month.

Melton May Play
Another State man that has not seen much action so far this season

MAY START IN WAKE FOREST GAME



The two men pictured above mean a lot to the State College Wolfpack team, and should they get in the game with Wake Forest Thursday things will look more rosy for State students and spectators. Captain Lepo, on the left, is still suffering from stomach trouble, and Basil Melton, backfield flash, is uncertain whether he will start or not. Whether these two men start or not will not be decided until the day before the game.

NOTICE, WRESTLERS!

All men interested in wrestling report to Coach Drennan at the Gym Monday at 8:00 p.m.
J. P. CHOPLIN.

will probably start in the Tech game. He is Basil Melton, and is one of the few letter men from last year's team. Melton is the fastest backfield man on the team, and should he get in the game the State backfield will be much improved.

State has only played two games so far this season. Both were teams that far outclassed her in weight, experience, and reserve material; but State made a wonderful showing in both. The first was with Washington and Lee and the second with Clemson at Florence, S. C., yesterday.

State's starting line-up is uncertain at this early date on account of the illness of Lepo and the question of whether Melton will play or not; but counting these two men out, the forward wall will probably find Jakey Jordan and "Coon" Silver on ends, Hermon Gardner and Vann, tackles; Smathers and Stout, guards, and Frank Gorham, center. The backfield quartet will be composed of Johnson, quarter; Dellinger and Davant, halfbacks; and Gus Wright, fullback.

This line-up is made up of a lot of sophomores, but these youngsters have shown plenty of form in their first two varsity appearances and are

Captain John Lepo Being Treated For Illness At Kinston

Captain John Lepo is not likely to start for State College in the State-Wake Forest game that is to be played on Riddick Field, October 18, due to continued illness. Lepo has been sent to Kinston, N. C., for treatment.

The Tech captain was not in the game with Clemson yesterday and was greatly missed; but Coach Gus Tebell and Dr. Sermon deemed it unwise to send their line star in the game, and instead sent him off to a hospital.

Lepo has been in only one or two scrimmages held by the Wolfpack during the past three weeks. He played in the Washington and Lee game, but on account of weakness from his illness had to be taken out early in the game. But while the State leader was in there he put up a whale of a game.

Lepo has been suffering with stomach trouble for a month, and has lost around thirty pounds in the last two weeks. Coaches, however, hope the hospital treatment will restore this lost weight and that the Wolfpack captain may be ready for action against the Deacons.

capable of starting in the Tech line-up.

Deacons Strong

The Deacons have overcome the poor showing they made in the first two games of the season, and now possess one of the strongest college teams in the state. The showing they made against Richmond University last week goes to prove this.

The return of Captain Johnny Cox to the backfield and the shifting of "Tex" Quillen, who was converted into an end early in the season, to the backfield to do the signal calling and toss the pigskin, has doubled the power of the Deacon backfield. Hipps, when sent in to replace Cox during the Richmond game, flashed enough form to give him a starting berth in the Deacon backfield.

The Deacons will probably use the same line-up against State as they did against the Virginians. The line will find R. Edwards and Gregson, ends; Zimmerman and Webb, tackles; Plica and Denton, guards, and Edwards, center. The backfield will be made up of Quillen, quarterback, Cox and Newsome, halfbacks, and Hipps, fullback.

Thirty Cross-Country Men Report For First Practice; Redfern Cpt.

About thirty candidates reported at the gym last Monday afternoon for the cross-country team. The team will be led by Capt. Alec Redfern, letter man from last year's team.

The team should be one of the strongest in the State this year, with six letter men back to take up their duties. The squad is taking a light work-out this week, but are planning to go out on the road the first of next week. They are expecting to be in the best of shape by the time of the first meet, which is with Carolina at Chapel Hill, November 2. The other meets have not been announced yet, but there are as many as four on the list.

Ward of Carolina has taken the individual scoring lead from J. Waggoner of Elon. Ward has scored five touchdowns for a total of 30 points, and Waggoner is second with four touchdowns for 24 points.

Carolina also leads in team scoring with 91 points, with Elon second with 72 points.

State Wolflets To Open 1929 Season With Duke Blue Imps

Game Will Be Played at State College on Friday of Fair Week

The North Carolina State freshman football team opens its 1929 gridiron season here Friday, October 18, with the Duke Blue Imps. The game will be played on Riddick Field and is set for 3 o'clock.

With this game just a few days off, two of the freshman star linemen have joined the casualty list. They are Jim Stroupe, 200-pound tackle hailing from the Quantico Marines, and Reid Tull, big guard of all-state caliber, from Charlotte. Stroupe has a broken jaw and Tull an injured knee, both injuries being sustained in a freshman scrimmage.

These two sudden upsets are sufficient to give any coach a bag of worries, but Coach Drennan has still a twinkle in his eye, for he has plenty of good material in which to find men capable of filling these two men's shoes for the first game. It is hoped by the freshman mentor that these two first-stringers will be back in uniform for the second game.

Strong Frosh Team

State has the strongest freshman team it has had in years, and should push any frosh team in the state. Many all-state men from North Carolina and other states are included in the bunch of 60 men reporting every day.

The line, when the two injured men return, will outweigh the varsity line, and the backfield will be about the same as that of Gus Tebell's quartet.

The forward wall has been chiefly developed by Shorty Lawrence and will probably find Willie Duke, Raleigh's all-state end, on right end, and Sam Gurnee, who is one-third Indian, on the other wing post. Gurnee is six feet four inches tall and weighs 199 pounds. Both of these wing men are experts at snagging passes and are fleet of foot.

It would be hard to find two tackles that could fill these two positions better than Cobb and Stroupe. These two men have played together for

2 FROSH LINE STARS ON CASUALTY LIST

Two first-string freshmen were put on the casualty list as the result of scrimmage this week.

Jim Stroupe, 200-pound tackle from the Quantico Marines, and "Red" Tull, all-state high guard from Charlotte, are the gentlemen just spoken of. Stroupe is out with a face injury, while Tull has a bruised knee with water forming on it.

The extent of neither injury has been fully determined, but they are serious enough to keep both men out of the first game, which is scheduled for Friday, October 18, with Duke Frosh.

the past few years on the Quantico Marines team. Cobb tips the scales at 196 pounds and Stroupe can add four more pounds to that of his running mate.

The guard berths will be handled by Reid Tull, an all-state guard from Charlotte, and Chester Martin, Blue Ridge start, will act as the other protector.

The center post has a red-headed chap by the name of Epsay. "Red" hails from Hickory and was an all-state man for two years. Just how good he is was shown this summer when Carolina, Duke, and State were trying to get his services. Duke would have him for a while, then Carolina, and when State got hold of him he was shipped to the eastern part of the state, where he was hidden until time to register.

The backfield is one of the fastest in frosh circles and all four men can punt, pass, and run. Morris, Raleigh boy, will be at quarter; Cumiskey, hailing from Lepo's home town, will occupy the fullback position, with "Shag" Waddell, Raleigh boy and Blackstone's seven letter man, and Bob Cook, Charlotte boy, will take care of the two half-back posts.

That, in brief, is probably the starting line-up of the freshmen for

DAVIDSON WILDCATS PLAY U. S. ARMY AT WEST POINT

Monk Younger Will Rely on Straight Football Tactics for Today's Game

The Davidson Wildcats and the U. S. Army football teams clash this afternoon at West Point.

Monk Younger's squad had only three days in which to prepare for this important game, and only a few new plays were given his men, for with such a short time in which to learn them the Davidson mentor deemed it unwise to try to fill their heads with new signal numbers.

Younger does not intend to use any special tricks against Uncle Sam's boys, but will rely on straight football more than anything else. He has several freak plays that have gained many yards for the Wildcats this season and are deceptive to opponents.

A passing attack has also been perfected for the Army team and will, no doubt, count for many yards for the boys from North Carolina.

The Davidson team will be facing the strongest team on their schedule today when they meet the Army team, but with odds greatly against them, they are all awaiting the signal to start the scrap with "Red" Cagel and his company of fast-stepping ball carriers.

Davidson will be far outclassed in weight, football experience, reserve material, and nation-wide football stars, but the Wildcats will not be outclassed in fighting stamina, and when that game is over the Army players will know they have been up against a fighting team, no matter how big the score may be in their favor.

their first game, excepting the two injured linemen.

Duke Imps Strong

But State is not the only freshman team in the state that has a strong team. Duke has 49 states represented in its band of football hopefuls. Among this list is included an all-southern backfield man. It will, however, be only a few days before it will be known who has the stronger team—State or Duke.

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Circulation:

F. HARVEY WHITLEY, Manager
Entered as second-class matter, February 10,
1920, at the postoffice at Raleigh, North Caro-
lina, under the Act of March 3, 1879.

SUBSCRIPTION PRICE:
\$1.50 PER COLLEGE YEAR

Our advertisers were solicited with the pur-
pose of putting before you dependable shop-
ping points. Remember this and feel per-
fectly safe in guiding your shopping by THE
TECHNICIAN.

October 17 has been desig-

nated as "Home-Coming Day" for State College. Let's make the old boys feel welcome.

At the game last week we noticed several State patrolmen present. It's nice to have them on hand in case of necessity.

We came very near having to call Professor Wooten "Mr. Majestic." At any rate we congratulate him and Mrs. Wooten on winning a radio.

The whole story of the Agricultural School is told in these pages. Each department has contributed to the first agricultural edition.

We wish to compliment Meredith on branching out into journalism. The first edition of the year looks like a college newspaper.

The Agricultural School contributed to this issue with the hope of carrying a message to the high schools of the State in regard to the work carried on here. This is their special edition.

The agricultural students are expecting to put on a better fair than last year. This fair is to be held in connection with the State Fair during the coming week.

One of the rare things that happened on the campus was witnessed the other day. Dean E. L. Cloyd went down to the Student Supply Store and had a clothing representative measure him for a new collegiate fall suit. We hope the salesman gives him a fit.

THE AG. STUDENTS' FAIR

It was in 1913 that the foundation from which sprang the present Agricultural Students' Fair was laid in the so-called Freshman Corn Show. At that time Prof. C. L. Newman was head of the Department of Farm Crops and chairman of the Agricultural Faculty, and offered prizes totaling about \$5 for the best corn exhibits brought in by members of the Freshman Class. The interest taken by the students in this Corn Show created in the student body a desire for something on a larger scale. Plans which were formulated for presentation to the students through the strong Agricultural Club were accepted with enthusiasm by practically the entire agricultural student body. Now some sixty-odd leaders in departmental exhibits on special committees complete the organization of twenty-four departments and divisions. The Agricultural Students' Fair has grown into an institution that is of untold benefit to the College of Agriculture and to the stu-

dent body. As an additional feature to this year's fair, realizing the advantages of disseminating information throughout the State concerning the School of Agriculture, the Alpha Zeta (honorary agricultural) Fraternity has decided to have some one of their members construct and supervise an information booth which will be located in the Ag. Fair tent.

COLLEGE ATHLETICS

Much present-day discussion is being presented in regard to the turning of the attention of the College from the classroom to the athletic field. It is known definitely that a college must have good teams to secure students, but this present-day means of buying, stealing, and compelling men to enter a college for the sole purpose of participating in athletics is not right. It is going away with the purposes and ideals upon which our colleges are based.

Scholarship has been pushed aside and dwarfed by a super-importance that has been given to athletics. Most of our great universities and colleges have professional athletic business managers, trained publicity agents, high-priced coaches. The stadium overhangs the classroom; athletics have a \$ sign in front of them. College alumni are by no means free of a share of the blame.

Football is now in big business. Last year Yale went over the top with a million-dollar season to her credit and a net profit from football alone of \$543,084.76. All the big colleges came through the year showing enormous profits.

The college scholarship has definitely assumed a secondary place. In most institutions the winning of an athletic letter is regarded as more important than the winning of a Phi Beta Kappa key. After all, what is the true purpose of education? I take it to mean the preparation of the student for the duties of life, of citizenship. This seems to be forgotten in the modern college.

Last year at the Scholarship Day exercises there were more on the platform than there were in the audience. But for the games the whole student body turns out with flying colors. Now is the time to start on the right road to putting scholarship up to the standards of athletics.

DORMITORY CLUBS

A movement has been begun on the campus which State College has felt the need of for some time. The organizing of dormitory clubs fostered by the student government of the College will give the students that home-like air which is so profoundly lacking.

Living conditions will be better, and it can be truthfully said that whatever means may be used will be for the betterment of the present conditions. Remodeling of part of 1911 last summer and the putting in of wall paper and many other conveniences has done much to improve the situation. The State allows the College only so much for improvements, and each dormitory will be given the earliest attention possible.

But while we are waiting for this renovation maybe we shall be graduated and then not be benefited. It's up to the individual to make the best of his conditions. This new organization is to be started for the sole purpose of improving the present living conditions, and in addition we shall have a means of promoting dormitory competition.

If the Faculty Woman's Club would be so nice as to sponsor competition in athletic clubs and in the decoration of rooms it would go a long way in making this movement a success. Pictures are to be bought and sold to the students at cost. Everyone knows that pictures are important to the decoration of a room. If these pictures are offered for sale it would be up to every student to fix his room up and see that it is kept up better than that of the fellow across the hall. Not until competition of this kind arises will the campus conditions become of the type that the new men would like to write home about.

Student Forum

JUDGING TEAMS OF STATE COLLEGE

By F. W. COOKE

Are judging teams a justifiable expense to a college? What value are they to the college and students? These questions have been uppermost in the minds of college leaders and officials for a long time.

A college to send several teams every year to Chicago, New York, Memphis, Detroit, and other cities needs a large appropriation. The returns for this expenditure are not apparent to the layman, and sometimes have appeared doubtful to the educator. Judging team does not play before a large crowd and make spectacular plays for the enjoyment of the spectators. It works quietly for weeks and months studying the fine points of judging and training to become proficient to compete with other college-trained men. It works with the knowledge that it will make the cheers and cries of encouragement from the onlookers at the contest or even receive recognition for its hard work.

The team, and those who have tried for the team, work tirelessly day and night to master the details and fine points that will enable them to recognize that which approaches the ideal whether it be poultry, cattle, swine, sheep, small grain, farm crops, fruit, or vegetables. They know that to approach the ideal they must know what the ideal is; that success depends on maintaining high standards and continually breeding to the ideal. That training themselves to see where improvements can be made and how to make those improvements will enable them to improve their products and know how to show others when they become farmers or extension workers.

The successful members of the team while at the contest come in contact with experienced judges who appreciate their work and willingly demonstrate and give new points in judging. The contest and exhibition give splendid opportunities to observe the finest collection of specimens bred and grown by the most successful producers in the country. The highest approximation to the ideal is before them, and it stimulates the team judges to produce specimens as good or even better when they are in the position to do so. Making friends among other college teams is no small accomplishment.

Their education is broadened by observing the new sights and customs of the city in which they are visitors. The evident desire of the team members to improve themselves and their conduct at the contest places them in a favorable light in the eyes of the big breeders and business men of the country. It shows the progressiveness of the students and of the college supporting them.

The benefits of intercollegiate judging contests are well summed up in the report to the Land Grant Colleges and Universities at its annual meeting in Washington, D. C., November, 1928. Dean Christian Larsen, of North Dakota, in this report says, in part: "The training, the experience, and personal contacts throughout the preparation and throughout the contest itself are of great value to the students, and these intercollegiate contests do create a deep-seated interest which probably could not be secured in any other way."

For years members of State judging teams and teams of other agricultural colleges through the United States have received neither recognition nor honor for their hard work and spirit to win for their college. There were no cheering mobs and bands to greet them, even when champion teams; no stirring speeches or monogrammed sweaters given as evidence of appreciation of the faculty or student body.

Even to this day very little is done to honor the winning or losing judging team.

In 1923 the idea of a fraternity to honor the men who made the judging teams originated at the Michigan Agricultural College. Corey J. Spencer, of Jackson, Michigan, the founder of the Lambda Gamma Delta Fraternity or "Honorary Agricultural Judging Fraternity," says in the "Student Agricultural Judge": The aims and objects of this national fraternity are:

1. To promote and stimulate advancement in the field of the judging of agricultural products.
 2. To honor persons who create a higher and more uniform standard of judging of agricultural products.
 3. To honor persons obtaining a high standard in such lines of activity.
 4. To create a perpetual loan fund for the education of worthy students.
- To honor members of judging teams of N. C. S. C. fifteen former judges banded together to found a chapter of this "National Honorary Judging Fraternity." In May, 1926, a charter was granted for the founding of the Epsilon chapter of Lambda Gamma Delta Judging Fraternity. This chapter has a four-fold purpose:
1. The creation and stimulation of interest in agricultural subjects, especially agricultural judging.
 2. Reward for efforts put forth in agricultural contest.
 3. The establishment of a national

register for recognition of merit in agricultural judging.

4. The betterment of agriculture through increased training in methods of selection from market and breeding standpoints.

For the past thirteen years over one hundred students have represented State on teams competing in national and international judging contests in various states.

Teams judging poultry, dairy and beef cattle, dairy products, swine, sheep, hay, cotton, tobacco, small grain, fruit and vegetables, representing the Animal Husbandry, Agronomy, and Horticultural departments, have made a wonderful and enviable record.

Poultry judging teams have been consistent winners at Madison Square Garden Poultry Show in New York since 1916. Since 1924 its teams have consistently been among four highest teams of the six to seventeen teams competing, winning one grand sweepstakes, second, two thirds and two fourths. Gold, silver, and bronze medals have been won by members of the State team for individual high scores for judging various classes and breeds of poultry. High honors, silver and bronze cups have been captured for victories as a team and as individuals.

The Agronomy Department has put in the International Collegiate Crops Contests teams that have done outstanding work for several years. A record unequalled by any agricultural college in America is held by this department. It has had five international champions, four champion teams, and one placing third within the past five years. The teams have won silver cups and medals for commercial grading and identification. For two years in succession it has held a large silver cup which will be awarded to the team that holds it for three consecutive years.

The Animal Husbandry Department has trained and put into the contests many teams in the past few years. State teams have been sent to the National Dairy Expositions at Memphis and Detroit for the past three years, also to the Eastern Stock Judging Contest at Blacksburg, Va., in 1928, and the Southern Fair in Atlanta in 1923 and 1924. These teams have kept pace with the crops and poultry teams. At the National Exposition the teams have stood exceptionally high in judging all breeds of dairy cattle, competing with 25 to 32 teams. Consistent with the high placings for all breeds the teams have stood high in judging individual breeds. High honors, silver cups for the team and individuals, were won for judging cattle, swine, and sheep at the Virginia State Fair and the Southern Fair.

A winning team and one that State can be proud of judged at the Intercollegiate Fruit and Vegetable Judging Contest at Atlanta in 1927. At this contest two gold medals, one individual silver cup, and three silver cups for State were brought back as evidence of splendid judging in apples and peaches.

State College can well be proud of her judging teams and coaches and look forward to better teams, and with the thought, as Dean Larsen reported, that "the training, the experience, and the personal contacts throughout the preparation and throughout the contest itself are of great value to the students, and these intercollegiate contests do create a deep-seated interest which probably could not be secured in any other way."

Agriculture Men To Hold Annual "Barn Warming" In Thompson Gym, November 2

(Continued from page 1)
of funny acts and interesting games to open up for the farmer lads and lassies. If a leader can be found, an old-fashioned square dance will introduce the dance program and limber up the country swains. It will be as "country" as possible, and those from the farm should feel at home, while the city cousins will be able to get a taste of life as the farmers and farmettes have it.

Meredith College authorities have been successfully conferred with and the Meredith girls, dressed as farmettes and armed with fascinating smiles, will be down to knock the dust of their prospective farmer and remove the hayseed from his hair.

Refreshments will be served in the good old country style, G. M. Swicegood, chairman of the refreshment committee, has announced.

"Daddy" Clevenger has greased up his ice cream churn in preparation for a big freezing to supply the "warmers" with something cold. Swicegood has also announced that plenty of corn will be standing, not flowing, in the gym to add realism to the event.

Incidentally, there should be plenty of peanuts to go round, for it is reported that Dad Dunham, chief peanut dispenser of last year, has cut all his classes this week to grab ground peas in the sandhills for this coming event. There will be apples and punch in plenty passed around to all present, according to the officials.

Farmers' attention! Put up your plow, grease your shoes, don your overalls, brush your hair, and hitch that old hayburner to the back, come to the frolic prepared to forget all your troubles and woes, is the admonition of I. A. Mc.



88.9 Percent
Known To Follow
Poultry As Their
Profession

Poultry Industry Rated Fourth in Agriculture Field

(Continued from page 1)
profitable line, and this again breaks up into production of table eggs and hatching eggs. Turkey production and broiler ducks are other lines.

If one does not care to establish his own business as indicated above, he can enter the employ of large organizations as fattening and dressing establishments, commission merchants, and poultry storage concerns, or he may enter the scientific or sales forces

74 Percent
Changed To
Other Occupations

3.7 Percent
Occupation
Not Known

WHAT STATE POULTRY GRADUATES ARE DOING

Students' Agricultural Exhibits Will Be Held At North Carolina Fair

(Continued from page 1)
be gladly answered. Free agricultural publications of the college now available can also be ordered at this information booth.

Officers for this year's fair are Joe Ellis, Jr., Rameuse, N. C., president; A. D. Stuart, Hamer, S. C., vice-president; P. J. F. Pepler, South Africa, secretary; G. M. Swicegood, Lynwood, N. C., assistant secretary, and J. E. Hull, Washington, N. C., treasurer.

The secretary of the State Fair is cooperating to the utmost of his ability with the Ag. Fair officers in their efforts to put on the best Students' Ag. Fair ever held.

The judging contests will be held on the campus during the week following the fair, as will later be announced. These contests will include agronomy, farm engineering, livestock, poultry, soils, and essays.

Many valuable premiums have been donated by firms in Raleigh, and also by outside firms. These donations make the Ag. Fair possible, and the whole school joins in hearty thanking these companies for their splendid cooperation.

945 Students Here To Take Course In Poultry Department

(Continued from page 1)
year in reply to request by people over North Carolina and the allied states. These requests were made relative to some poultry difficulty encountered on the farm, or in some way related to the advancement of the industry.

Poultry research bulletins and blueprints numbering 46,500 were issued during last year. The bulletins treated on all practical poultry problems and the blueprints were of the North Carolina types of poultry houses and farm layouts.

The members of the poultry staff gave 2,196 consultations to poultry keepers desiring immediate attention in this vicinity and the adjoining counties. It is the hope of the members of this department to render service to anyone who might become interested in this work, or at any time they encounter difficulties in any phase of poultry raising.

In carrying out the 1928 schedule there were 1,506 demonstrations and lectures conducted in the State. It is very good to read and learn how other people do things, but we must see and actually take a part in the operation before we are satisfied.

Together with the other service of the department they have a technical disease laboratory, where last year there were 1,613 postmortems made of fowls sent in to the department in quest for the cause, effect, and measures of control.

The report shows that flocks numbering 49,000 birds were culled. Every poultry keeper naturally desires to make as much profit as possible. To do so it is important that every hen kept should be a good layer, and that all cockerels except those for breeding purposes should either be eaten, canned for home use, or sold to the local market. For anyone to succeed in poultry raising it is necessary that he learn to cull accurately, so as to keep only such birds as will pay a profit.

The Poultry Department at State College conducts four test-plants, in different sections of the State. The purpose of these plants is to work out in a logical way the principles of poultry raising which best accommodate that section of the State.

New Polk Hall Ranked Among Most Complete In Animal Husbandry

(Continued from page 1)
Tamworth hogs is maintained for teaching work in Animal Husbandry, and in addition the experimental herd of Poland Chinas and Durocs are maintained for use to some extent for classroom work. The Experimental Station flock of sheep is also available for students, and consists at the present time of Hampshires and Shropshires.

While no breeding herd of beef

of poultry feed and equipment companies.

State agricultural colleges and departments of agriculture employ poultry staffs of six to twenty men in each state, and foreign countries are calling for men. We are having calls constantly for trained and experienced poultrymen. We have been able to only partially fill this demand.

Where State College Men Are Located

The graduates of the Poultry Department of State College are located in more than twenty-five states and some in foreign countries. These men fall into three classes: Those who hold the degree of B.S. in Agriculture, specializing in poultry; those holding this degree from other agricultural colleges and completing their M.S. in Poultry Science at State College (we have seventeen of these, with four more this year, which will make twenty-one), and those who have completed both degrees at State College. Two of our graduates have become heads of poultry departments in other states and many of them are in charge of lines of work as extension, research, or teaching. These men are scattered in Florida, South Carolina, Georgia, Alabama, Mississippi, Arkansas, Missouri, Iowa, Nebraska, Ohio, Indiana, Illinois, Michigan, New Hampshire, Vermont, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Virginia, North Carolina, Maryland, California, and Kansas. But by far the most of our graduates have remained in North Carolina to aid in developing our great poultry industry. These men are engaged in extension, teaching, research, certification, marketing, and production lines, some operating hatcheries, others in egg-broiler, and other production lines, while others are county or assistant county agents in counties where poultry is one of the major crops. County agents and vocational agricultural teachers take training in the poultry department, as more than forty-five per cent of North Carolina farmers raise poultry and the problems of hatching, rearing, production, and disease are constantly before them.

What the Graph Shows

Professor Armstrong has made a survey to determine the activities of the graduates of this department. This survey shows that 44.6 per cent of the State College graduates follow the profession for which they were trained. These figures were generally true through the country for agricultural graduates. The results of the survey, however, show that 88.9 per cent of the poultry graduates are known to follow poultry occupations. There are 7.4 per cent which have changed their occupation, 3.7 per cent occupation unknown, 2.3 per cent of the department graduates operate poultry farms or hatcheries for themselves, 18.8 per cent are various state extension poultry specialists, 12.5 per cent are teaching in colleges, 14.6 per cent are in various marketing organizations, 14.6 per cent are extension men, district agents, and salesmen for various feed and supply houses, 6.2 per cent are managing poultry farms and fattening establishments, and 3.3 per cent are in county agent or vocational teaching work.

There has been a general belief among some because many graduates have been placed in other states that State College Poultry Department graduates are located outside the State. These figures show that 65 per cent of the graduates are located in North Carolina. There is a water demand than supply for good, reliable, trained poultrymen.

cattle is maintained, a few steers are purchased each year for judging and fattening data, and later they are slaughtered by students in the Farm Meats course.

The Farm Meats Laboratory is probably better equipped than any in the South, and thorough training is given each Animal Husbandry student in the slaughtering of animals and preparation of meats and hides for home use.

The production courses in Animal Husbandry are taught by men who are in actual contact with the experimental farm work. The Extension Station flock of sheep is also available for students, and consists at the present time of Hampshires and Shropshires.

While no breeding herd of beef

46 PER CENT VOCATIONAL AG. STUDENTS NOW FARMING

Figures in North Carolina Are Similar to Those of United States

Forty-six per cent of the boys who studied vocational agriculture in the high schools of North Carolina are now farming, according to a study made last year by T. A. White, a graduate student in agricultural education.

This study was made from records of a selected list of schools in this State which had been in operation for at least twelve years. It was also found that 46 per cent of the boys who study vocational agriculture graduate from high school, and of those who graduate 75.65 per cent go to college. Of those who go to college 32.5 per cent elect agriculture, and 43 per cent of these graduate from an agricultural college. This means that out of 100 boys taking vocational agriculture 46 graduate; approximately 23 go to college; seven or eight go to an agricultural college, and about three out of the original hundred graduate from an agricultural college.

Comparable figures for the State as a whole are not available, but in one group of high schools (not agricultural) it was found that 60 per cent of the graduating class of 1927-28 entered college. In corresponding years Mr. White's study showed that for the agricultural schools 41.5 per cent of the agricultural graduates went to college. This indicates that fewer graduates of agricultural departments go to college than from non-vocational schools.

Of the boys who have studied vocational agriculture 46 per cent are now farming; 60 per cent are in an agricultural college or in an occupation in which their agricultural training functions.

The data used in this study include the records of boys studying vocational agriculture from the beginning of this work, organized under the Smith-Hughes Law of 1917. Accurate figures to indicate the trend toward or away from farming in recent years compared with the earlier period are not secure.

It is interesting to note, however, that the figures for North Carolina are very similar to those for the country as a whole as reported in a study by the Federal Board for Vocational Education.



Youthful marriage, kept secret from a fast set of young folk at a "whoopie" party, gives a breakneck start to "Fast Life," the first National-Vitaphone drama coming to the State Theatre next Friday and Saturday.

It gives such a start, in fact, that the young lovers, enacted by Loretta Young and Douglas Fairbanks, Jr., are nearly carried to their doom on the impetus. The film play, like its stage original by Samuel Shipman and John Hymer, is filled with thrills, having situations, warm human interest, and with some excellent drama.

Chester Morris, the boy who made such a hit in "Alibi," is also featured in the cast. He has the same part he played on the stage. Ray Hallor, Frank Sheridan, William Holden, and many other noted players form the all-star cast. John Francis Dillon directed the picture.

The two funny men whose humor directly opposes the gospel of pep and push are coming to the State Theatre next Monday, Tuesday, Wednesday, and Thursday. The Two Black Crows, Moran and Mack, those lazy, drawing upholders of the doctrine of "Why Bring That Up?"

Of course they do appear at times with their make-up, but the story takes Moran and Mack from the time they are down-and-outers until they are shining successes—from the time they are down and out because they have a firm belief that their particular kind of comedy will be successful until the time when their long friendship is nearly wrecked because of a woman.

Evelyn Brent has the part of the scheming woman, who plays on Moran's susceptibility in an attempt to fleece him and his partner too of their life's earnings. Miss Brent has had a rapid rise to stardom in the talking pictures.

Harry Green, who will be remembered as the theatre manager in "Class Harmony," is also in the cast. A Fox Movietone News and three acts of Vitaphone Vaudeville will complete the program. The acts are Mal Hallett and His Entertaining Orchestra, Grace LaRue, the International Star of Song, and Frances Shelley and the Four Eton Boys in a musical act.

Backed with an impressive cast and a reputation as one of the greatest melodramas of all time in both book and drama form, "Bulldog Drummond" comes to the Palace Theatre all the week, beginning Monday, October 14, as Ronald Coleman's second individual starring picture and his first opportunity to play a genuine comedy role since he entered American pictures. Samuel Goldwyn, producer of "Bulldog Drummond," determined last year on securing this famous stage thriller for his male star and finally won out over the earnest competition of two of the largest picture producing organizations in Hollywood.

Supporting Ronald Coleman in his role of the young demobilized British army officer, hungry for adventure and finding it, are Joan Bennett, Montagu Love, Lilyan Tashman, Claude Allister, Lawrence Grant, and other names of the first rank in moviedom. "Bulldog Drummond" marks the first appearance on the screen of Joan Bennett, daughter of Richard Bennett, and a well known stage actress in her own right. F. Richard Jones, who came prominently into public notice as the director of "The Gaucho" for Douglas Fairbanks, wielded the megaphone for "Bulldog Drummond" from a script prepared by Wallace Smith as scenarist.

SELF-HELP CLUB HOLDS FIRST MEETING OF YEAR

The State College Self-Help Club held its first meeting of the year October 5 in the basement of the Y. M. C. A. with a full attendance of old members.

The meeting was called to order by last year's officers and the roll was called by Jiggs Spence. These same officers were re-elected to serve for the current year. Various committee chairmen made reports, which were discussed and approved by the club. Following this a general discussion was held.

The Self-Help Club was organized two years ago at State College by Joe Moore, and since that time has taken its place among the other organizations on the campus.

In a booth at the Campus Drug we overheard a young girl remark, "Yes, all men are fish." We suppose she means the ones she boasts about always get away.

It's easy to tell one sex from the other. A man won't take your last cigarette.

NEW GREENHOUSE AIDS INDOOR EXPERIMENTS IN FLORAL INDUSTRY

With the erection of the new greenhouse last summer a year ago the amount of space for indoor horticultural experiments was doubled. There is now room for experiments with some of the chief floral crops of North Carolina. Very little work has been done heretofore because of this lack of space, and only a limited amount can be done now, for the space is still limited and there is such a large field for floral experimentation.

This fall and winter, part of the space is occupied with varieties of special of the different floral crops. There is a variety test of roses being carried on with 17 varieties of greenhouse roses in the house, besides 25 varieties of teas and hybrid teas in a bed out of doors. In another bed outside there are 18 varieties of hybrid perpetuals, polyanthas, and rugosas. There are also 16 varieties of climbing roses, which are being grown to see which ones seem to do best in Central North Carolina.

Other variety tests include 44 varieties of greenhouse chrysanthemums, 17 varieties of greenhouse carnations, 12 varieties of greenhouse snapdragons, a variety test of approximately 100 hardy herbaceous flowering plants, groups of begonias, primroses, cinerarias, cyclamen, poinsettias, palms, and other tropical plants.

Besides this variety work there is a shading experiment being carried on with carnations to try to determine the cause of weak stems. Another plot is being used by one of the members of the Forestry School to determine the rate of root growth of young pine seedlings. In another plot there are about 35 varieties of lettuce, 20 varieties of carrots, and eight varieties of beets.

In the spring one of the houses was nearly half full of young Irish potato seedlings in pots which were later transplanted to the field. There were about 8,000 of these potato seedlings, and plans for about the same number next spring have been made.

The greenhouses stay full when the weather is such that plants can't be kept out of doors. The space, as has been shown before, is limited, and as a result the work has to be limited. Of course if more greenhouses could be furnished much more work could be done.

City Lad—Say, dad, how many kinds of milk are there?

Father—Well, there's malted milk, evaporated milk, buttermilk, and—but why do you ask?

City Lad—Oh, I'm drawing a cow and I want to know how many spigots to put on her.

A man never realizes how much waiting can be done in an hour until he waits for a friend who has stepped into a pretty widow's house to console her for just a moment.

Officer—I don't know why the men grumble. This soup is really excellent.

Sergeant—They wouldn't grumble, sir, if the cook would admit it is soup. He insists that it is coffee.

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Chain To Sponsor Dad's Day Program To Be Held Oct. 17

(Continued from page 1)

wrapped in the colors of the two schools on the day of the game.

The Golden Chain, in order to fully carry out this program, has selected several men from the outstanding members of the Junior class to aid in carrying out the program as parts of different committees. Members of the Golden Chain will be the chairmen of these committees.

The committees that will function chiefly at this game and during Dad's Week are those on pep meetings and on publicity.

Following is the letter sent to the fathers of students at this institution: "To the Dads of Students of N. C. State College:

"It has been the custom for several years past to set aside a day during the fall as 'Dad's Day.' This year the event will be celebrated on October 17.

"The object of the celebration is to get the 'dads' to visit the campus, spend the day with their sons and their friends, look over the grounds and buildings, and get a glimpse of the daily life of the student body.

"On this day one of the big football games of the season will be played, Wake Forest opposing the fighting 'Wolfpack.'

"The entire student body extends to you and the rest of your family a most cordial invitation to spend the day with them. Everything possible will be done to make it an enjoyable occasion.

"If you plan to come, have your son reserve a seat for you at the game. There will be a big crowd and this should be done at once."

J. H. Beaumont Heads Horticultural School

(Continued from page 1)

Carolina. Since 1925 he has been Assistant Professor of Horticulture, and he now has official charge of the horticultural greenhouses.

Professor J. P. Pillsbury is Professor of Landscape Architecture. Professor Pillsbury won a four-year scholarship to the Missouri Botanical Gardens at the age of seventeen. From there he went to Penn State, where he taught plant propagation and had charge of the horticultural work on the campus for eight years. He graduated from Penn State in 1910. While he was at Penn State, Professor Pillsbury designed and established a course in Landscape Architecture which is still being used there. Professor Pillsbury has been here at N. C. State since 1911 as Assistant Professor of Horticulture. He took graduate work at Harvard last year in Landscape Architecture. He has now designed a course in Landscape Architecture for this college.

In addition to the men mentioned, there are five men engaged in horticultural experimental work. C. F. Williams has been an Associate Horticulturist at the N. C. Experiment Station since 1920. Mr. Williams graduated at Penn State in 1917, and received his M.S. degree here at N.

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C. State in 1924. Mr. Williams is now conducting investigations regarding Sandhill peaches and dewberries. He is also doing some raspberry and grape-breeding work.

Robert Schmidt is now engaged in vegetable research. He graduated from Rutgers College in New Jersey, and he worked for the New Jersey Agricultural Experiment Station for a while. He then went to the Kansas Experiment Station, where he remained until his work was interrupted by the World War. After the war he taught Horticulture at Miss. A. and M. for four years. He has been here in North Carolina since 1923. His work is confined chiefly to the eastern part of the State, where he is doing research work with lettuce, sweet potatoes and Irish potatoes, and conducting fertilizer experiments with other vegetables.

H. R. Niswonger has been engaged in horticultural extension work here in North Carolina for seven years. Mr. Niswonger first attended Antioch College in Ohio, but he later transferred to Ohio State. He graduated at Ohio State and then took up work with the Kentucky Agricultural Experiment Station at Lexington, Ky. After leaving the Kentucky Experiment Station he became manager of an apple orchard at Henderson, Ky. He came to North Carolina seven years ago, and he is now the Extension Horticulturist for Western North Carolina.

M. E. Gardner is Pomologist for the North Carolina Agricultural Experiment Station. Mr. Gardner is a graduate of Virginia Polytechnic Institute. He did vocational agricultural work in Virginia for two years, and he then became Assistant Horticulturist for the Virginia Agricultural Experiment Station for two years. He was then Associate Professor of Horticulture at Clemson Agricultural College for three years. Since then Mr. Gardner has been engaged in the hor-

ticultural experimental work in North Carolina, where he is in charge of fruit investigations in Piedmont and Western North Carolina.

E. B. Morrow is the Extension Horticulturist for Eastern North Carolina. He graduated here at N. C. State. He then took graduate work at the University of California, where he received his M.S. degree. Mr. Morrow worked a while for the North Carolina Division of Markets, and in 1925 he became Extension Horticulturist for the Experiment Station.

The horticultural greenhouses are under the active charge of J. G. Weaver, who is also a graduate of N. C. State. Mr. Weaver graduated with the class of 1926, and up until last fall he worked for Middlemount Gardens at Asheville, N. C. Mr. Weaver is taking some graduate work and doing some laboratory teaching along with the greenhouse work.

If exposure to sunlight prevents disease, the only thing a flapper can get is corns.

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Agricultural Department Views As Seen By State Professors

(Continued from Page 2)
articles, radio, circulars, and demonstrations.

Some of the major problems with which extension work is confronted are: (1) boll weevil and cotton insects in general; (2) Mexican bean beetle and truck crop insects in general; (3) tobacco insects; (4) fruit insects; (5) general field and forage crop insects; (6) household insects; (7) forest and shade tree insects; (8) insects attacking man and domestic animals, and (9) insect pests of the flower garden.

Growers are warned that insect pest control must be considered as a regular part of the crop system. A poison machine is a necessary piece of farm machinery; insect poisons are just as necessary as fertilizer or seed. It is poor management to grow a crop for bug food. Grow no more than can be properly poisoned.

Bees

Long-time experiments on overwintering bees are being carried out. This problem is of vital interest to all beekeepers, and much valuable data is being obtained. Other problems of apiculture management are being conducted in connection with this important problem. Of course resident instruction is given in beekeeping, using the State College apiary as a laboratory.

Extension work in beekeeping is carried on all over the State with the cooperation of the county agents. The beekeeping industry has made tremendous growth in recent years, and now ranks as a very important means of livelihood. Beekeepers are kept informed as to the latest approved practices, and demonstrations are continually given to show the proper handling of the colony. News articles, meetings, talks and many other sources are used in extending beekeeping information to those interested.

Plant Disease Control

At the present time economic and quality production of many crops are hampered by diseases, which seem to

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be increasing in severity. There are many diseases that cause little or no economic loss in normal seasons, but cause heavy losses in seasons favorable for the development of the parasites. The disease problems that need solving are increasing in greater numbers than the number of investigators employed to work out control measures. Then a study of the cause and the perfection of a control for any plant disease may require several years. Some diseases, even after thirty years of intensive study, have not been successfully controlled. Others are successfully combated after one or two years of such study.

In order to give some idea of how a disease problem is solved, it will be of interest to follow the progress in the control of the stem rot, yellows, or wilt diseases of sweet potatoes.

The symptoms of this disease are yellowing of foliage, wilting, brownish streak in the inner part of the stem, and later the entire plant; and finally the death and blackening of all parts above ground.

This disease is found on light sandy soils, and is most severe on Norfolk and Sasparas sands, where the loss amounts to millions of dollars annually. The disease is rarely seen on clay or loamy soils, which do not produce quality potatoes like that of the sandy soils.

The study of the disease was first started with a thin section of the diseased stem. When examined with a microscope the cells showed small thread-like strands extending from one side to another. This was recognized to be a fungus. But it had to be gotten out of the tissues and grown separately from all other organisms on a cooked and sterile sweet potato and then placed into healthy stems before it was definitely shown to be the true cause of the disease. This fungus or low form of plant life has the scientific name of *Fusarium batatas*, and is closely related to the *Fusaria* that wilt tomato, cabbage, cotton, cow peas, watermelons, and other crops on the same soils. But it does not attack any of the other crops.

A study over a long period of years showed that the fungus lives indefinitely in the soil, and that it works down into the potato from the diseased stem, and later attacks the sprout in the plant bed. It was quite evident that potatoes selected from healthy plants during the harvest would materially reduce the percentage of those diseased plants which died after being transplanted into the field, and experiments showed this to be a fact. But later tests showed that this was not a practical solution, because the soil infection was found to be extensive, and consequently the disease was severe on many farms even when healthy plants were used.

On the other hand, the disease was completely controlled when healthy plants were set on soils that were not infected with the parasitic fungus.

In studying the disease as it occurred in the field from year to year it was seen that losses on infected areas ranged from 30 to 85 per cent, and many of the plants died during the first dry and hot periods. The plants which remained healthy throughout the growing season at first gave misleading evidence of resistance, because experiments showed they had just escaped infection by the fungus. Advantage of this information was taken by planting two and three plants in a hill. Although many of the plants died, nearly a perfect stand was maintained on badly infected soils and the production greatly increased over the one plant in a hill. This proved later to give a very practical control.

While working out this practical control method, it was discovered that the fungus attacked the stem of the plant, on the end that had been attached to the potato, during transplanting. The stems are frequently broken and the large cells opened so that the fungus enters the inner tissues readily. Experiments were begun with dipping roots and stems into chemical solutions just before transplanting to find a chemical that would be poison to the fungus at the point where it enters the plant. Out of many substances used, Bordeaux mixture was found to give one of the most economical and practical controls that has ever been developed for plant disease. For a few cents enough plants may be treated to plant an acre.

During the above studies a large number of varieties and strains were tested on infected soils. Some were much more resistant than others. The Triumph, Red Brazil, White Yam, and Yellow Yam varieties were found to be highly resistant. All Jersey, Porto Rico, and Nancy Hall varieties and strains were found to be susceptible.

These facts are being used by growers in this and other states, and will eventually be adopted wherever this disease is a problem. The grower now has a choice of planting resistant varieties, transplanting two or three plants in a hill or one plant twelve inches apart, and dipping the stems in Bordeaux mixture just before transplanting.

Plant Physiology

DR. D. B. ANDERSON

Plant physiology is one of the bases of scientific agriculture. Before we can control and cultivate plants intelligently we must know how they live and grow. The problems of the farmer are also those of the plant physiologist. These problems deal with every known aspect of plant behavior, and the success of plant physiology in solving them directly affects the farmer and all agriculture.

The production of peanuts in North Carolina provides an excellent illustration of the directness of this relation between plant physiology and the concrete problems of the farmer. Peanut growers of this State have been spending thousands of dollars annually for "Land plaster" to dust upon the leaves of peanut plants. No one knows, however, just why or how this practice is beneficial to the plants. Land plaster is expensive, and it is highly desirable to know just how it acts upon the plants.

By bringing peanut plants into the physiological laboratory and placing them under controlled conditions this problem can be solved. It is possible in this way to discover just what influence the land plaster has upon the rate of water loss from the leaves of the peanut plant. It is possible to determine whether the chemical elements in the land plaster are entering the leaves, and if so, what changes there are as a result of this penetration. It is possible to study the effects of other dusts upon the plant, to determine whether peanuts will respond more readily to other substances.

In the laboratory the exact effects of such farm practices can be studied, and from the results of these studies recommendations made that may not only result in saving large sums of money, but also in bringing better yields and more effective farm practices.

This is but one of thousands of problems that are being studied intensively in plant physiological laboratories. Certain of these problems are of particular importance to farmers of North Carolina. Studies of the way in which cotton fibers are formed, for example, and the relation of cotton fiber structure to its commercial uses. The whole matter of fertilizers and their effect upon plant growth and behavior is another question of fundamental interest to plant physiologists.

In short, plant physiology aims to be able to predict plant behavior and plant responses. To do this its knowledge must be broad and its methods accurate. By experimenting with plants under controlled conditions, facts are being accumulated that help in analyzing the behavior of plants in the field. A background of fundamental facts is being accumulated upon which recommendations can be made to farmers, recommendations that will result in better crops more economically produced. Plant physiology is rapidly developing a solid foundation for scientific agriculture.

Hog Lot Pool

L. A. WHITFORD

Sometimes, in summer or autumn, stagnant pools in pastures or hog lots become green or are covered with a green scum. Many people think this water is poison, and make every effort to keep livestock from drinking it. This is not true. The green scum is composed of thousands of tiny microscopic plants, called algae, living in the water. One of the commonest kinds is called, technically, Euglena. It is spindle shaped and usually about 1 250-inch long. Certain kinds may give the water a disagreeable odor and taste, but are harmless to men or animals.

On the other hand, the presence of these plants usually indicates that the water is polluted with manure or other animal waste and may contain disease germs. A method of preventing the growth of these green scums is known and will be gladly given to any farmer who will write to the Department of Botany and state the size of his pool.

Soil Bacteria

I. V. SHUK

Germs, or bacteria, are frequently thought of only in connection with disease. It is true that a number of human diseases and animal diseases are caused by certain of these tiny organisms, but because a few may be detrimental, all of them should not be put into such a class. Many of the bacteria in the soil are entirely indispensable. Should one grow a crop of any ordinary kind, he also grows, perhaps without knowing it, a crop of bacteria. Most of these necessary germs in the soil are connected in some way with the changing of plant and animal residues in the soil into plant nutrients which can be used by the growing crop.

Nitrogen is needed by every crop plant, and the man who buys his nitrogen in the form of fertilizer knows that he pays a high price for it, even though four-fifths of the air above his field is nitrogen. The difficulty is that the crop plants cannot use nitrogen except in certain combinations as nitrates, ammonia, and the like. Fortunately there are a group of bacteria that can change nitrogen from this inexhaustible supply of the air into compounds that plants can use. The most important of these so-called nitrogen-fixing bacteria are the ones that form little knots or nodules on the roots of many of our leguminous plants, as peas, clover, soybeans, or vetch. These nodule bacteria get a part of their food materials from

the root of the legume plant and can use nitrogen from the air. They combine this nitrogen for their own use and build it up in their bodies. Some of it then becomes available to the legume plant.

Although the germs that cause these nodules are very similar to each other, there are really a number of different ones, and each will attack only one or, at most, a few kinds of legumes. On this account one must make sure that the proper kind of bacteria are in his soil when he plants a certain legume crop, otherwise no nodules will form. If the proper kind are not in the soil they may be added by inoculating the seed with a culture. It has been shown by experiment that even though bacteria capable of making nodules on a legume plant may be present in the soil, they may not be

long to the most efficient strain or variety. In other words, it often pays to inoculate seed with an efficient nitrogen-gathering strain of the proper germ, rather than trust to the efficiency of those already in the soil.

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North Carolina State Forestry School As Seen By Teachers Here

Forestry Education

North Carolina State College is now in line with other schools and colleges in the country in awakening to the realization of the need of and offering a four-year course in Forestry leading to the degree of B.S. in Forestry.

From the Forestry Almanac we have the following information: "Facilities for education in the principles and practices of forestry, covering the field from the points of view of economics, silviculture, entomology, and management, have kept pace with awakening public sentiment and organized governmental activity. The result has been the establishment of more than a score of schools with courses leading to the degrees of Bachelor of Science in Forestry, Bachelor of Science in Forest Engineering, Master of Forestry or other appropriately designated degrees.

When the announcement was made in the spring of 1929 to the effect that the Pennsylvania State Forest School was to be under the jurisdiction of the Pennsylvania State College, with most of the forestry work at State College, and the curricula so altered in practical and intensive forestry, the majority of the student body turned elsewhere in search of a school in which to complete their education in technical forestry. One of the members of the present senior class in Forestry, a former Pennsylvania State Forest School man, writes:

"In January, 1929, Dr. Hofmann, now head of the Forest School at N. C. State, resigned from the faculty of the Pennsylvania State Forest School to accept his present position. When word first came to us that our school was to be no more, and a description of what it was to become was tendered us, we were at first at a loss to decide where we might complete our education along the lines we originally had planned. Our first thought naturally was of the South, for during the past five or six years approximately 50 per cent of the graduates of our school had entered and found work in the southern forestry field. No other section of the country offers such promises for the future of forestry as the South. It is THE great field for the practice of that profession. Our next thought was of a school. Knowing Dr. Hofmann was at N. C. State to establish a forest school, and knowing the calibre of his work, a committee was sent from the student body to Raleigh to investigate the possibilities. Dr. Brooks and the 'powers that be' very

3 NEW PROFESSORS JOIN ECONOMICS DEPARTMENT

Add Professors Knapp, Rogers, and Wooten to State's Faculty

The Department of Agricultural Economics, established six years ago, deals with the economic phases of agriculture, such as farm management and organization, marketing of farm products, agricultural finance, farm accounting, agricultural statistics, and land economics.

Up until this year the department has had but two professors. This year three new men were added. The first of these is Dr. Joseph G. Knapp, graduate of Leland-Stanford University and for three years associated with Dr. E. G. Nourse of the Institute of Economics, Washington, D. C. Dr. Knapp is well qualified both by experience and training to conduct the work in marketing and agricultural finance. Mr. Ralph H. Rogers, the second new man on the staff, comes to the department as research associate in farm management and organization. Mr. Rogers is a graduate of Purdue University, Indiana, at which institution he obtained his M.S. degree. For the past few years he has been connected with the South

generously made possible the establishment of the school in its entirety, with a most excellent faculty, consisting of Profs. Ralph W. Hayes, Iowa State College, and D. Y. Lenhart, B.S. in F., Pa. State Forest School; the net result of which was the transfer of 43 members of the student body of the P. S. F. S. to the Department of Forestry at North Carolina State College. Membership in the three upper classes as follows: seniors, 16; juniors, 16; sophomores, 11."

Today the Department of Forestry at N. C. State is no longer a dream. It is firmly established; it is a real, active, and a permanent addition to the curriculum of the college, with the ideals of forestry firmly rooted. It will profit by the failures and successes of other forest schools, and must succeed. Certainly its objectives, which are of the highest order, should be an important factor in that success. Although the Forestry Department was only established during the present year, we now have seventy-five (75) students in the regular four-year Forestry course. These students are distributed through the four classes in the following numbers: 16 seniors, 18 juniors, 16 sophomores, and 23 freshmen. With these groups of students there will be trained men available this coming year for working on the State problems along some of the lines that have been mentioned. The interest that has been shown in the Forestry courses and the school in general is indicative of the general interest in the whole problem of forestry at the present time. That forestry will progress in the State of North Carolina may be taken as a certainty.

Dakota Experiment Station. Mr. H. H. Wooten, a graduate of this institution, is the third addition, and is assistant in agricultural economics. Mr. Wooten has had wide experience in research, having worked with the U. S. Department of Agriculture, U. S. Tariff Commission, and the State Tax Commission.

Since 1925 the department has graduated 37 students. All of the graduate students are now occupying outstanding positions. Professor R. J. Saville (1926) is now head of the agricultural economics research at the Louisiana State College. F. W. Risher (1928) is in charge of the marketing work in the Florida State Department of Markets. R. L. Hunt (1927) is associate professor of agricultural economics at Texas A. and M. College. F. H. Harper (1926) is associated with the United States Tariff Commission.

Several graduates are located in the State. L. C. Salter (1925) is with the State Division of Markets, and J. J. Morgan (1925) is with the State Department of Agriculture. Other graduates have found good positions in the neighboring State of Virginia. The Social Science Research Council has awarded fellowships to members of the department for two years in succession. A year ago Mr. Saville received a fellowship of \$1,750 and spent his year's leave of absence at Cornell University. Mr. Campbell, professor of marketing, received a fellowship this year of \$1,000. He will also continue his graduate work at Cornell University. R. L. Hunt, now at Texas A. and M., also received a fellowship this year, and is going to continue his graduate work at one of the leading universities.

The department's research program has been mainly in the field of farm organization and management. Last year the department took a leading part in the research work of the State Tax Commission. Recently the results of the study of Taxation in Agriculture has been published as an Experiment Station bulletin. The research is now being expanded to include marketing, agricultural finance, and tenancy. Projects in these fields are under way. In the future the department expects to expand in the direction of land economics, agricultural statistics, and accounting.

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Students Supply Store, mdse.....	7.50				
James E. Thiem Co., fountain pen.....	4.25				
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Wake Drug Co., candy.....	3.00				

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IT HAD TO BE GOOD TO GET WHERE IT IS



Sigma Pi Alumni

The alumni of Rho Chapter of Sigma Pi, national social fraternity, recently perfected an organization which has been incorporated under the laws of North Carolina. The corporation will hold all the property of the chapter at State College and also handle its finances.

The officers of the corporation are: W. B. Ethridge, Chief of Bureau of Markets, State Department of Agriculture, president; Dr. H. B. Mann, Agricultural Experiment Station, State College, vice-president; Frederick Habel, State Highway Department, secretary, and Professor A. F. Greaves-Walker, head of the Department of Ceramic Engineering, State College, treasurer and comptroller. These men, with A. M. Greaves-Walker, an instructor in the Department of Ceramic Engineering, form the board of directors.

The office of the corporation is at the new chapter house of the fraternity at 2513 Clark Avenue, Fairmont.

Fair Week Dance

The North Carolina State College students are cordially invited to attend the Fair Week Home-Coming Dance on Thursday evening from 9 till 1 o'clock, at the Woman's Club, after the State-Wake Forest football game.

The dance is sponsored by the Intercollegiate Club of Raleigh, and elaborate plans are being made by the club to make this dance one of the best of the fall season.

Ted Williams and his orchestra of Oil City, Pa., have been obtained to furnish the music. They played at the Isle of Palms and at the annual debutante ball for the past two seasons.

Invitations are being issued throughout the State to the social and collegiate set that are expected to attend the football game and the Fair next week. Many girls from Raleigh and other cities are being selected to assist the club in sponsoring this dance.

W. E. Koonce, president of the senior class, is leaving Tuesday, October 8, for Iowa City. There he will attend the convention of the "Tau Beta Phi" fraternity, which is a national engineering fraternity. Mr. Koonce will reach Iowa City after two days and one-half of travel. He intends to be away until October 15.

Rho Chapter of Sigma Pi officially opened its new home on Clark Avenue on Wednesday evening with a reception to the members of the faculty and their wives and the presiding officers of the other fraternities.

The new house was tastefully decorated with fall flowers and presented an attractive appearance. In the receiving line were W. B. Ethridge, president of the alumni of the chapter; Dr. and Mrs. H. B. Mann, Professor and Mrs. A. F. Greaves-Walker, Mr. and Mrs. Fred Habel, and the officers of the chapter.

Refreshments were served by members of the chapter.

The Old Dominion Club held its first meeting Thursday at noon in the Y. M. C. A. Plans were made for a most elaborate social program for the coming year. The officers of the club for this year are James Seal, president; Arthur D. Thomas, vice-president; M. R. Vipond, secretary, and James Holstead, treasurer.

The Pan-Hellenic Council will give its "pledge dances" on the 8th and 9th of November. Plans are in progress to make these the best pledge dances ever given at State College. The Council at present time is not ready to announce the orchestra that is to furnish the music. It is understood, though, that they are conferring with a very popular orchestra.

Sigma Pi Entertains

The Sigma Pi Fraternity gave their second dance this year in honor of the freshmen and collegiate society in the city Friday night in their new home on Clark Avenue. Three rooms were open for dancing, and in another bridge tables were set up for those who preferred bridge to dancing. In each of the rooms was an extension and loud speaker from the radio-victrola, so that nowhere were the dancers out of range of the music. Punch was served during the evening by the chaperons. Young ladies who were guests of the fraternity for the evening were: Letitia Mason, Louise Kennedy, Emily Storr, Louise White, Mary and Virginia Rogers, Mary Lily Judd, Eleanor Kennedy, Margaret Foster, Ellie DeBoer, Mary Ruth Greaves, Sara Clay Paylor, Mary Porter Flint, Caroline Tucker, Martha Galloway, Katherine Carter, Letitia Mason, and Ada Curtis Spencer.

The Kappa Alpha Fraternity entertained last Wednesday evening at a smoker in their home on Clark Avenue for the freshmen that they are rushing. The members of the fraternity present were: Robert A. Grimes, Jr., Tom Mott, Jr., Arthur D. Thomas, Wm. E. Rand, Armfield Leinster, Juagh and Larry Haar, Herbert Atkinson, Stanley B. Allen, Ben Merritt, and Julian Mann.

David Floyd, better known as "Shu," who graduated with the class of '29, was married August 15 to Ruby Manus. He was a member of the Alpha Gamma Rho Fraternity. Mr. Floyd is now living in Chicago and has a position as assistant coach at the high school.

Dances Monday Night

The second week of rushing season got off to a good start when three of the fraternities entertained at dances Monday night in honor of the first-year men and young ladies of Raleigh. The Lambda Chi Alpha house on Clark Avenue was the scene for one of the best dances of the year. The two living-rooms, hall and solarium were thrown en suite for the dancing, and across the tops of these rooms were hung streamers of purple, green and gold, the fraternity colors. In front of the fireplace was a large lighted design in the shape of the Lambda Chi pin. Guests of the fraternity besides the freshmen were: Mabel Sargent, Edythe Holloway, Blanna Matthews, Clarice Mitchell, Martha Ray, Polly Benton and Frances Hooker from Rocky Mount, Sarah Whitaker, Eleanor Kennedy, and Ada Spencer.

The Delta Sigma Phi Fraternity were host at their home on Commercial Street. All sorts of fraternity banners were used to give the house a festive air. During the evening refreshments were served to the guests, who were: Caroline Tucker, Madie and Margaret Hughes, Mary Porter Flint, Cleo Ashby, Dorothy Evans, Augusta Hobbs, Dorothy Dillon, Sally Briggs, Ann Vaughn, and Caroline Price. As an introduction to their new home on Vanderbilt Avenue, the Alpha Gamma Rho Fraternity entertained at a dance. Many of the younger set of Raleigh were there and some young ladies from out of town.

Many of the students and faculty bummed or motored to Durham for the opening game at Duke University last Saturday.

The Pi Phi Pi Fraternity entertained informally at their home on Enterprise Street Tuesday night in honor of some of the freshmen. Smokes were passed around during the evening and soft drinks were served.

The Pi Kappa Alpha Fraternity entertained at a combination smoker and buffet supper Wednesday night at their home on Hillsboro Street. Members of the freshman class were honor guests for the evening.

T. S. Stuart, Pi K. A., is spending the week-end in Winston-Salem.

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AGRICULTURE SCHOOL HAS STEADY DEMAND FOR SOILS GRADUATES

The increase in production of crops made possible by the tremendous mechanical advancement of recent years as compared with a generation ago has changed the business of farming from a simple practice of planting and harvesting crops to a rather highly specialized industry. If this business is to be successful various factors, such as the original fertility of the soil, the need of any deficient plant-food elements to supplement this fertility, the special adaptation of crops to different soil types, and, in many cases, highly technical skill in handling the soil, must be taken into consideration.

The aim of the Division of Soils is

to give to students of agriculture that fundamental knowledge of soils, soil fertility and fertilizers that is essential to profitable farming of any kind, and to offer training equal to that which can be obtained at any other institution for those who wish to prepare themselves for technical positions by specialization.

The branches of soils work in which State College is outstanding are fertilizer studies, soil surveying, and soil classification. The factors which have contributed to the prominence of the college in this work are the excellent field in which to work; the pioneer activity of the North Carolina Experiment Station in conducting fertilizer and soil fertility experiments; the correlating of these experiments with soil types as classified during the process of making soil surveys of three-fourths of the coun-

ties of the State, and the training and experience of the men in charge of soils teaching.

North Carolina uses more than 1,200,000 tons of fertilizer each year. It is conservatively estimated that the \$32,000,000 annually spent by North Carolina farmers for fertilizer adds from \$150,000,000 to \$200,000,000 a year to the value of their crops. The production of fertilizers is the fifth largest manufacturing industry in the State. Ninety-three plants produced \$18,423,536 worth of fertilizer in North Carolina in 1927.

Graduates of State College hold important positions with fertilizer companies, both in North Carolina and other states, and in recent years the demand for men trained for such work has greatly exceeded the supply. State College has had an excellent record in the past two years in training men for soil survey work. The government examinations for junior soil surveyor for a number of years have been especially difficult, only about 15 per cent of those taking the examinations having passed. The only men to pass these examinations in the last two or three years without having had actual field experience in soil survey work are two State College seniors, A. E. Shearin in 1928 and Joseph Williams in 1929. Shearin received an appointment with the U. S. Soil Survey in August, 1928, and has worked in Iowa and Texas. At the present time he is in Michigan. Williams is eligible for appointment whenever a vacancy occurs.

The Division of Soils has had opportunities to place men in soil survey work with four different states in addition to North Carolina this summer. Two of these states, Alabama and Oklahoma, are at present negotiating with State College graduates in soils who have other jobs. J. H. Swain of the present senior class spent the summer doing soil survey work in Minnesota, and similar work will be open to State College men next summer.

Jobs held by State College men who have specialized in soils or secured positions through their work in soils since 1924 include the following:

Fertilizer work 8
Soil survey work 4
Soil research work with experi-

ment stations and commercial organizations 4
Extension work 2
Graduate fellowships 2
Farm manager 1

This list exceeds the number of graduates in soils, some jobs having been filled with men who specialized in other lines of work, but elected a number of soils courses. It has been impossible to fill a good many other jobs because of a lack of trained men.

That students specializing in other branches of agriculture are realizing more and more the importance of soils is evidenced by the steady increase in the number taking soils courses since 1924. Following is a record of the number of students enrolled in soils courses for the past five years: 89 students in 1924-25, 168 students in 1925-26, 198 students in 1926-27, 236 students in 1927-28, and 335 in 1928-29. This steady increase promises to continue during the present session, as the present fall term enrollment is 20 per cent greater than that of last fall.

Five graduate students are registered in soils this year, and three others who completed their course work in 1928-29 plan to complete their theses and examinations and secure M.S. degrees at the 1930 commencement.

Dr. W. B. Cobb, in charge of soils teaching, has had a wide range of experience in soils work, including soil survey work, teaching and commercial work in eleven different states.

Professor F. S. Davis, who came to State College in January, 1929, is a graduate of the University of Missouri, with the B.S. and M.A. degrees and most of his work towards the Ph.D. degree completed. He has had three years teaching experience in addition to his work at State College.

All Students

who feel that a copy of this edition of The Technician will be appreciated by a friend or relative back home, especially some high school student contemplating the study of agriculture, can obtain extra copies from Joe Ellis at 201 Watauga.

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