

TECHNICIAN

N. C. STATE COLLEGE

WEST RALEIGH, N. C.

Vol. I

February 1, 1920

No. 1

THE STATE COLLEGE MEETING ITS DEMANDS

EXTENSIVE BUILDING PROGRAM UNDERWAY

Addition of Department of Agricultural Engineering, Department of Architecture; Oil Mill with Complete Outfit of Oil Mill Machinery.

The first thing that attracts the attention of even the casual visitor to N. C. State College is the marked increase in the number of students enrolled. The total enrollment for the past fall and this spring is approximately 1,030. The present registration is 836 students and 70 teachers. This represents a decided increase in number of students over any normal year of the College in the past.

To do its duty toward the students committed to its care, and to care adequately for its present number, the College has begun a quite extensive building program, which will be completed as rapidly as possible under the existing conditions.

1. A dissecting laboratory for the Veterinary Department has been completed and is now in use.

2. Two farm cottages for the foremen of the Agronomy and Animal Husbandry farms, respectively, are now under construction and are due to be finished within a month.

3. Plans and specifications have been completed for additions to the Animal Husbandry Building, which will provide an insectary and greenhouse for the Department of Bacteriology.

4. Improvements costing \$20,000 will be made to the Pullen Building. The auditorium will be remodeled and completed so as to correct its acoustics and to provide a seating capacity of about 1,500. In addition to all the conveniences of a modern building of this kind, full provisions will also be made for the safe exit of audiences in case of fire.

5. As soon as the State Architect can complete plans, the construction of dormitories to accommodate about 210 students will begin.

6. The State Architect is preparing plans for an Agricultural Extension Building to cost \$125,000, and construction will begin as soon as these plans are ready.

7. The Board of Trustees has authorized the construction of a suitable building which the oil mills of the State and manufacturers of oil mill machinery have promised to equip, at practically no cost to the College, with a complete outfit of modern oil mill machinery.

8. The Woodshop, recently damaged by

fire, will be replaced at once by better construction, and equipment of machinery and tools that will be better and more modern than those lost.

In addition to the above extensive building program, which is well underway, a well-equipped Department of Agricultural Engineering and Highway Engineering have been added during the present session, and the Department of Vocational Education has been greatly enlarged.

A Department of Architecture is in process of organization and will be ready for students next session.

Now equipment worth \$25,000 has been installed in the Textile Department, making it easily the best textile school in the South and equal to any in the country.

Electrical Engineering Society Notes

(a la Oliver Ramsaur)

The Society is at present busily engaged in the work of planning and getting into shape for the electrical show to be staged in the Engineering Building some time in March. Only once before in the history of the College has such a show been given—that in the spring of 1917, which was technically and financially a great success. But the Society is expecting to give this year a show which shall far surpass even that, at least in make-up. As it is one of the first of its kind here, it requires much new material and make-ready, and the greater part of this work is being done by the members of the Society themselves.

It is intended that this show shall be interesting as well as instructive and educational, and for this reason many "stunts" are being prepared. One will see there the miracle of frying eggs in a pan, not over a stove, but over a platter of real ice; one will see there a real perpetual motion machine in operation, a top which not only spins indefinitely, but pulls other machinery as well. There, too, you will see a million volts of electricity taken through the human body. And along with these and many other stunts will go instructive exhibits and demonstrations.

Much new electrical machinery and apparatus is being borrowed from the manufacturers especially for this show, and we hope that the students as well as outsiders will avail themselves the opportunity of seeing all this electrical wizardry and demonstration.

OLIVER RAMSAUR, '20.

A freshman with an empty bottle labeled FeSO_4 glanced hurriedly into his book and yelled, "Say, Professor, where can I get some more of this ferocious sulphate?"

Agricultural Club Starts Work of New Year

The Agricultural Club held its first meeting of 1920 on January 14, with President E. P. Welch presiding and E. B. Morrow as recording secretary.

Dr. Wolfe was the main speaker of the evening, and in his usual manner gave a very interesting and instructive talk. Dr. Wolfe mentioned the fact that North Carolina now ranked as fourth in the agricultural world, and could be called a rich State. But with all this advancement, North Carolina has more money invested in automobiles in one year than she has spent for education in the last hundred years.

Dr. Wolfe also mentioned in his talk that he could not see why any student taking Agriculture should not be an active member of the Agricultural Club. This is true of all courses; every man should support his technical club or society. It needs your support, and will be only what you make it.

Naughty Cupid!

"O woman in your hour of ease, uncertain, coy, and hard to please."

Our well-known and popular quarterback has become a disciple of the man who popped the foregoing lines. Richard, so it has been rumored, was a veritable Romeo last fall and sang as gayly as a lark. Since the holidays, however, he's no so spry, and 'tis whispered that his Juliet has—anyhow, Richard, we're all as sorry as can be and wish to extend our sympathy. You know, Old Top, that "'Tis better to have loved and lost than never to have loved at all."

A.L. Monroe, with an attempt at his former gay and hearty grin, will tell you all about the "rag, a bone and a hank o' hair" stuff. Wasn't it awful that it had to come right during the holidays? Looks as though she might have waited until you were safe at school. Ah, well, Old Top, such is life!

It is not so bad to pick on the hardened and experienced males, but for the fair sex to trifle with the affections of the uninitiated is too much. It is brutal and fiendish, to say the least. The latest victim of this coquetry is Jimmie Compton, who unsuspectingly lived in an ecstasy of sublime and tender emotions until this blissful state of mind was rudely shattered by the news that may mean a wrecked life. We sincerely hope that he recovers, and in the meantime would mention, "If at first you don't succeed,..."

Verse Libre

Working, thinking all the day
And half the livelong night;
Working with a zeal indeed
That doesn't take the might.
Now if you could listen
You'd hear them crying, "Alas! Alack!
Here's the Ace, King, Queen and ten—
All I missed was the Jack!"

—G. W. Tiencken.



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Application for entry as second-class matter at the Postoffice at West Raleigh, N. C., pending.

Published semi-monthly by the students of North Carolina State College of Agriculture and Engineering at West Raleigh, N. C.

Subscription Price: 50 cents per College term.

Smoothly and with never a jerk or splash, but with an unerring, quiet movement, a strange ship casts off and the voyage is begun. Since she carries with her a cargo of high hopes and aspirations, for the horizon is clear, the sun radiantly rides the heavens, the very atmosphere urges and compels a greater effort in the task undertaken; the future is bright. Rough and stormy seas are expected, but the vessel is a sturdy craft and capable of weathering the worst tempests. Faith is a prized asset, and as long as the beacon of hope sheds its rays upon the ship's course the goal is in sight and success is assured.

In this the launching of the initial issue of *TECHNICIAN*, the editors have undertaken to prove the value of a college publication. A paper that is entirely the product of the student body becomes at once the official organ through which the thoughts, the activities, and in fact the very life of the campus, is registered. It is the mouthpiece through which the students themselves talk. College life without its journal is blank. The very spirit that to make a student body a mass of live wires is totally lacking unless some outlet and some encouragement to their many ideas is found. Fellows, in order to make this paper an established institution, it is absolutely essential that every man lend his aid and council. The new organ of the State College men must be built around a nucleus of cooperation, which is the keynote of success. An undaunted *esprit de corps* is absolutely necessary if we are to reach our ultimate goal—a real, live, up-to-the-minute chronicle of our activities.

Some years back the *Red and White* was a flourishing magazine and a credit to the College. In the spring of 1917 this splendid publication was forced to cease operations by the advent of the war with Germany. As

compared with the present student body, the enrollment at the College was small. Now the point that I want to make is this: if a smaller student body could get out a very creditable magazine, what ought we to do? Haven't we advanced? Are we not more prosperous? Aren't we better equipped for a larger task than they? Most assuredly we are. We mean to make this, the *TECHNICIAN*, a humdinger. We mean to make this a paper that will distinguish the College and be a pleasure to those whom it will represent.

Come, fellows, one and all, lend your aid for a bigger and a better *TECHNICIAN*. We're reying upon you to help put it across.

Mechanical Engineering

The field of employment for the engineer is constantly widening and many are now engaged in lines of work in which a few years ago technical knowledge was considered quite unnecessary. The increased cost of coal and the increased cost of labor will bring new problems in the industrial development of the country. Waterpowers that were worthless three years ago are worth millions today. Great industrial institutions that were conducting profitable businesses three years ago will operate at a loss in the future unless their entire methods of manufacture are reconstructed.

Many trades and business occupations will become obsolete in the next few years, and many new ones will be added to take their places. Machinery is taking the place of hand and animal labor. Colleges are being asked to bring to the attention of young men the necessities of the engineering field. It is the duty of every young man who is now qualified to take up engineering work to do so. Engineering today offers a wonderful opportunity for men to assist in the development of their country and to fit themselves for a profession in which there is great opportunity.

The Mechanical Engineering Course here at this our College is today offering a course of training which will best fit a young man to enter the engineering world and make good. Although handicapped to a certain extent this spring by the partial burning down of our shop building, we are still going ahead and, so far, are producing results. The damaged portion of the shop building is to be replaced by a much better building, with the most modern machinery and tools. Beginning with the work next year, the Mechanical Engineering Course will be increased by the addition of a new course in oil mill work. This is an industry which is practically new and is offering some great opportunities for a mechanically trained man. The Mechanical Engineering Society, a student organization for mechanical students, is fully organized here, and if our plans work out we will soon become affiliated with the American Society of Mechanical Engineers. It is the purpose of this society to give the members practice in preparing and delivering papers of interest to the mechanical engineer. It encourages original research and reveals to the members the value of technical periodicals. The society also aims to develop the literary side of mechanical students, which is often neglect-

ed because the student fails to grasp the important part it plays in the lifework of an engineer.

No matter how the demands of civil life may change the engineer's problems, the trained mind has always the solid foundation of exact principles from which to draw correct conclusions. Already we have a few indications of the great problems that must come to the engineer in the next few years. It is only thoroughly trained men that will be able to cope successfully with the engineering problems of the future.

ALBERT L. WHITE, '20

Watauga Afire

A blaze on the third floor of Watauga Hall caused considerable excitement among the students and about \$1,000 damage to the building on last Saturday, January 24. The fire when discovered had gained considerable headway, while great clouds of black, stifling smoke poured from the windows, the top floor being a choking inferno of strangling fumes. A few heroic souls who were on the scene at the time made a wild dash for the nearest hose house and in a few minutes the nozzle of the hose refusing to hold what little water there was.

This state of affairs was demoralizing, to say the least, for to attempt to reach the scene of action was to brace a series of squirts and sprays from the laboring hose. In the meanwhile some thoughtful person had sent in a call to the Raleigh Fire Department, and as the situation was becoming real serious they arrived to save the day. While the firemen were busily chopping up the floor and gradually lessening the small chance of any return of our breakage fee, the occupants of the domicile (who were absolutely against running any risk) began to throw our personal belongings. In less time than it takes to tell it, a great portion of the immediate campus was cluttered up with boxes, trunks, baskets, breeches, caps, and various other pieces of personal property.

The announcement at this point that the fire was out caused an immediate movement of personal effects back into the smoke-begrimed and water-logged dormitory. The fire was out, thanks to the prompt response of the Raleigh Fire Department.

The origin of the fire isn't known, but many explanations as to the cause are in circulation. Some think that a lighted cigarette was to blame, while others believe in spontaneous combustion of a greasy rag thrown behind a radiator.

Wampuses!

Oh, young Lochnivar,
 Or Possum Ramsaur,
 With his cute little grin of mirth.

A great big jar,
 Falling barrels of tar,
 And Buss Nooe's abnormal girth.

Two campus "nags":
 A stick, some rags;
 God's praise when they're both in the earth.

Athletics

Tech Quint Going Strong

Keenly feeling the defeat given our team by the Trinity players in the initial game of the season at Durham, the Techs came back with a strong punch and defeated Davidson, the score being 30 to 10.

The game, which was played on the Auditorium court in Raleigh, was full of thrills throughout the entire contest. During the first half it was nip and tuck, neither side retaining its lead for more than a few minutes at a time. The first half ended in Tech's favor, 10 to 9.

The second half started with a rush, State College opened up with a wonderful display of speed and teamwork. This proved to be too much for the Presbyterians, who were held for one lone tally, and that made on a foul goal. Captain Cline's tossers scored at will; time and again the ball dropped through the basket, and each time the scorekeeper added a pair of tallies. The State College men finished strong, with a total of 30 points to Davidson's 10.

State Defeats Guilford

A very pretty exhibition of basketball was staged Friday night, January 30, on the Raleigh Auditorium court, when State College defeated Guilford by 20 points, the final score being 45 to 25. Guilford brought first blood by making two field goals. This spurred the Techs to a greater effort and in a very few minutes the score was tied. The first half was a test of strength, endurance and teamwork, but when the blast of the timekeeper's whistle announced the end of the first twenty minutes play, Coach Crozier's men had the biggest end of the 22 to 14 score. The Guilford players loosened up during the second half, allowing State to score repeatedly. Due to a series of pretty passes and a splendid display of teamwork, our

men made an additional 23 points during the second part of the game, making a grand total of 45 tallies. The Quakers were allowed by 11 points during the last period, which brought their total to 25 points.

At a recent meeting of the old and prospective track men, J. B. Lawrence, of Statesville, familiarly known as "High Pocket," was elected captain of the 1920 team.

Items

"P.G." Allen seems to think it quite a distinction that some of our newer men should mistake him for a well-known campus character.

"Sammy" Homewood, late of the 1919 football squad, is back on the campus. He returns to us not only as our beloved Solomon Lynn, but as Professor Homewood, having taken Mr. T. H. Stanford's place on the faculty. We are glad to have him back.

As "P. G." White would say—*Richmond!* Rich-MOND! Albert, what's the attraction?

"Jimmy" Peden is satisfied now if a klaxon is sounded only once.

If y' forgot it and you want it the next time y' need it, don't have it layin' around in the Chemistry Department.

Jack Arthur, Jun. Chem.—"Is ethelene flammable or inflammable?"

Percy Beal reads English right along now; has not had a cold in his last syllable since fall.

Jud Albright, Jun. Chem.—"Is that Alcohol?"

Tompkins Textile Society Holds First Meeting of 1920

The Tompkins Textile Society held its first meeting on Tuesday evening, January 29. This being the time for the election of new officers, the following officers were elected:

President—S.K. Wright.

Vice-President—H. E. Hood.

Secretary—G. W. Bowers.

Professor Nelson gave a very interesting and instructive talk. He mentioned the fact that more of the society members should attend the meetings, for they are both helpful and instructive. Practical problems are discussed in the society by the students and the professors of this department. To make the society a success the Textile student must cooperate.

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Organization of the C.E. Society

About the middle of November, 1919, the Civil Engineering Seniors held a meeting for the purpose of organizing a Civil Engineering Society. The name of the meeting was the North Carolina State College Civil Engineering Society. W. V. Baise was elected president; R. R. Robertson, vice-president; F. P. Shore, secretary and treasurer; and R. D. Pillsbury, sergeant-at-arms.

The constitution and by-laws were drawn up by a special committee appointed for that purpose, and were approved at the first regular meeting the latter part of November. Practically all Civil Engineering students in the upper classes are now members of the society. The organization has secured a firm footing and there is every indication to show that it will succeed in its purpose. The object of the society is to create a closer personal acquaintance and union among the Civil Engineering students and to promote the interests of the Civil Engineering profession.

In December the society as a whole decided to apply for membership in the North Carolina Society of Civil Engineers. Its induction into that society will take place January 31, 1920. The North Carolina Society of Civil Engineers is affiliated with the American Association of Civil Engineers, and in that event the State College society will receive the benefits that accompany that change also.

It is the plan of the society to try to get various men well known in the engineering profession to address the meetings. Members of the society will also take part in discussions and read papers on matters of interest to the students. In

this manner a broader view with regard to numerous engineering problems may be had.

There comes a time in the affairs of all men when things begin to take on a brighter aspect and the world seems more cheerful. Until recently our own mess hall has been a rendezvous where men went thrice daily to take a whack at the "bull" and try to strangle a few beans down with a gulp of water merely for the sake of subsistence rather than for any pleasantries. But for the past few days we have been blessed with food far more palatable—at least to our eyes. For lo! there have appeared on our threshold several young and beautiful forms—fair ones, whose radiant beauty surpass any which has ever been called a part of us. The "flu" has a great many disadvantages, to be sure, but we are tempted to say it is worth the price of a healthy epidemic of it to have with us a few of the gentler sex to make the gloomy days seem brighter. Lately, the late morning sleepers have somehow managed to arouse themselves from their dreams in time to journey to the mess hall, mumbling some absurd excuse to their roommates as to their unusual conduct. Others, who have hereto taken their lunchers at "Chick's" for want of effort to betake themselves so far for so little, have recently been imbued with renewed vigor and now they wend their way daily to the call of the bugle under the pretext of "seeing what they've got today for dinner." Jolly well happy are we to have you with us—you of the white caps and fair countenances—and we hope that the "flu" will last a few days longer than has been scheduled. Though we don't know you in person or by name, still we find great pleasure in craning our necks thrice daily and beholding your smiling greetings as you enter our place of "eats."

Suggestion Box

In order that every student may have a part in the production of our paper, we have had placed in the vestibule of the mess hall a "Suggestion Box." Fellows, it's not there as an ornament, but for the use of men who haven't the time to come to our office. We are asking for contributions, and we are depending on YOU to make this YOUR paper. Events of campus interest, jokes, and any real, live items that you think would help improve the paper. If perhaps you have

some criticism to make, don't feel a bit bashful, but let us know.

The response to our appeal for names for the paper couldn't be considered very generous; however, a few of the titles were submitted that were very good. Following are some suggestions that the staff considered: *The Technique*, *Snips and Cuts*, *Student News*, *Red and White*, *Pine Tops*, *State College News*, *N. C. Tech*.

Fellows, use the suggestion box for a better and a greater TECHNICIAN.

BOOST THE TECHNICIAN

A—"Wasn't the concert rendered in D flat?"

B—"Yes, D__n flat!"

Flim—"Do all 'flu' patients suffer such agony?"

Flam—"Oh, that's merely the Glee Club you hear."

George—"Sit down, you're full of mud."

Jimmie—"Well, that covers the ground, doesn't it?"

New Use

Fond Father—"Well, my son, what do you intend to do with the sheepskin you obtain at college?"

Youth—"I was thinking of using it to strain the gasoline from my car. You know how poor the quality of gasoline is these days."—*News and Observer*.

Conversation in the dining hall:

Floyd—"Runt, why do you talk through your nose?"

Crockford—"Because my mouth is busy."

At Des Moines, the table is covered with cake, cream and fruit.

Floyd—"Hey, waiter! Haven't you got something nourishing? Give me a plank steak."

College Court Cafe

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R. A. PAYNE, Mgr.

BOOST

THE

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