

The Technician

N. C. State College of Agriculture and Engineering

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STATE COLLEGE STATION, RALEIGH, N. C., APRIL 27, 1923

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What Mechanical Engineers Do | An Opportunity For Service

A List of Some of Our Men Who Have Succeeded

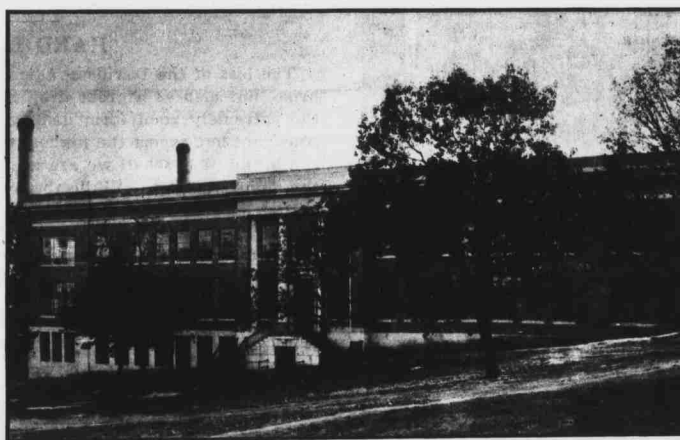
Lots of people ask what a man can do who takes mechanical engineering. There are many lines of engineering the mechanical course prepares him to follow. There is power plant engineering in its many phases, the design, or installation, or operation of power plants, of both steam and water power. Of these six lines either one is a branch of engineering to which a man could afford to devote his life. There are great strides being made today in power plant engineering and yet plenty of room for research and development.

There is a sub-branch of power plant engineering in which a great deal of research and development is being carried on in recent years. This is the steam engine and steam turbine. You have but to know that the modern steam turbine has been in use scarcely 25 years and that the steam engine is a development of the last decade to see that surely here is a field which is in its earliest stages of development.

Besides power plant engineering there is heating and refrigeration, both of which are being developed to a greater extent than ever before, for nowadays we must be kept warm on the outside and cool on the inside.

The various and unnumbered kinds of machine operation which are used in present-day manufacturing can best be handled by a mechanical engineer.

But the activities of a mechanically trained man is not necessarily confined to these purely mechanical branches. The training he receives is broad enough to enable him to take up any line of industrial occupation, or purely business occupation, for that matter. The fundamentals of nearly all the branches of engineering are given in the mechanical course, thereby enabling him to efficiently pursue any line of engineering he may choose. Most men are not sure what they are going to make their life work even when they finish college. It is folly to take such a specialized course that you must follow it and no other, unless you are absolutely sure of your suited and prepared avocation. Therefore we say take a course in college which is general. Let the specialized de-



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North Carolina a Great State for the Engineers

For years North Carolina has been recognized as a great agricultural State, and of our accomplishments in agriculture we are justly proud. But North Carolina's activities are no longer confined mostly to agriculture. We are rapidly coming to the front in manufacturing of all kinds.

As the newspapers have told us, and we have seen from our own observation, a great amount of capital is right now being invested in the industries of North Carolina. The great textile industries of New England are moving to North Carolina. Other industries of all kinds are springing up all about us. Our industries are expanding, and the next few years will see North Carolina a great manufacturing center. We must now ask ourselves how we are to meet this rapid growth. Will we, as the citizens of the State, grow with it, or will we watch others grow. Will we lead or will we follow? This is a question we must answer, not with words, but with action.

Everyone knows that North Carolina needs more textile experts. North Carolina is not at present furnishing enough trained men to manage this one industry. We are calling on other states for these technical experts. And then, what about the thousands of machines that are operating in our mills, the thousands of machines that are yet to be built and installed in the new mills we see going up all over the State? The motors must be designed and built by electrical engineers. The looms and other machines will be designed and built by mechanical engineers. The buildings themselves will be built by civil engineers. And thus we see that before the raw cotton can become cloth the services of men of four distinct branches of engineering are required. This is in the textile industry alone. Every one of our countless other industries requires the services of one or more of these professional men.

I say professional men, for engineering is indeed as much a profession as the practice of law or of medicine. Engineering is a highly specialized profession, for the term

(Continued on page 4.)

Professor L. L. Vaughan

Prof. L. L. Vaughan is a graduate of N. C. State College, having been graduated in 1906. After completing his course here, he continued his studies Columbia, where he obtained his M.E. degree.

Professor Vaughan returned to us in 1920, to become an associate professor in the Mechanical Engineering Department. Since 1922 he has been director of the department.

Professor Vaughan is one of the best scholars that the school has ever produced. While at Columbia he became a member of the Tau Beta Pi and Sigma Xi scholarship fraternities.



He is a wide-awake, energetic director, always on the alert to better his department in any way that he can. In other words, Professor Vaughan is a go-getter. He has an able staff of assistants, and together with them he has built up his department in every possible way.

He is not a passive friend to his students, but an active one. He

is always on the lookout for them after graduation. Having been our department head for only three years, he has already made a place for himself in the hearts of his students, and as a man well fitted for his position.

velopment come after you have gotten the proper broad foundation and have gone out and selected your avocation from experience. Don't

forget, however, that mechanical engineering does prepare for definite

(Continued on page 6.)

JUNIORS, ATTENTION!

The 1924 Rings are here and the committee is ready to receive your orders. See Crater at the "Co-op" and give your order. Five dollars (\$5.00) deposit required. Green and Morris also have sample rings.

The Technician

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Our advertisers were solicited with the purpose of putting before you dependable shopping points. Remember this, and feel perfectly safe in guiding your shopping by The Technician.

EDITORIAL

Cameron must try again. William Jennings talked for over two hours.

This radio stuff is not so new. People have been listening in through all the ages.

That dog fennel which forced itself through the rocks in our back yard must have been a power plant.

That man who attached an electric fan to his lawn mower probably knew something of heating and ventilating.

Too bad the Freshmen abolished their caps just as the foliage was coming out. Green and red always did look good together.

One of the mechanical specialists told us the other day that the first thing usually to be broken about an automobile is its owner.

It has been proven over in Page Hall that a lever requires no time for operation. It's quite simple. The summation of the moments is zero.

That fellow Sunday night who was kicked out of the house by the father of his girl, has had some experience in calculating on reversed effective force.

Physiologists tell us that the human body is a machine, and burns fuel just as any other. We knew that all the time. In winter, we can see the smoke.

The Mechanical Engineering Department has the name of having the champion boxers on the campus. "Runt" Crockford and "Jack" Barber are hard to beat.

Some of the Mechanical Profs. are kind enough to let us go from class a little early, on the condition that we go out quietly in order not to awaken the other classes.

AN ACTIVE ALUMNUS

There are few men who have gone out from State College who have been as untiring in their efforts for the advancement of the College as has Prof. L. L. Vaughan, head of the Mechanical Engineering Department here. Not only in his particular department, with its added responsibilities of the care of the heating and power equipment, has he been an interested worker, but also as chairman of the Board of Trustees of the College Y. M. C. A. has he had a position of the most vital importance to the College. In his church and Sunday school work he takes the leading part. Of such a man, working for the advancement of his Alma Mater, giving power and influence through the Y. M. C. A., a bulwark in his church and Sunday school, State College cannot but be proud.

AN INDUSTRY THAT BUILDS OTHERS

The Mechanical Engineer occupies a place of high importance in the development of the other industries of a community. It is his ingenuity and knowledge that is used most in the construction, installation and operation of the great machines which are of themselves factors in industry. To the Mechanical Engineer is due the credit for the harnessing of great waterfalls, with their endless power; to him is due the efficiency of the modern methods of heating, ventilation, and all the conveniences that are found in the home and factory today. His is the duty of paving the way for the other specialists, who follow with their particular part of the program. To him is due a great amount of the credit for the vast industrial progress of the South within recent years.

HARD LUCK'S ARRIVAL

The loss of the Davidson game last Tuesday came not only as a mere surprise, but also as a great drop in the baseball stock of the College. After the extremely good form displayed by the boys on their Northern trip, we could not but expect the highest type of baseball on the home lot. However, the brand of baseball we are accustomed to seeing was not in evidence, and the game was lost. While the losing of the game is not necessarily fatal, it will at least complicate matters for us for the remainder of the season. Perhaps the trip had too recently been brought to a close, and left the fellows tired out and out of condition; perhaps the Davidson men showed an unexpected ability; perhaps a thousand things—but there is no perhaps about losing the game.

But there, there—the old story of the milk pail that became overturned, and no amount of wailing would replace its contents, comes up as a challenge to all of us. Right now is when the team most needs our support. Right now is when the old spirit must be brought in with all of its ancient and modern glory. We must let the team know that we expect the greatest things from them, and that we are right in there with them to the last. The most important games of the season are yet to be played. The games that go furthest toward making the all-important State decision still remain at the last part of our schedule. Upon those games State's athletic record for this year depends. Team, we've got to win! Here we are, every one of us, right with you to the last ditch.

MECHANICALS' PART OF COLLEGE LIFE

The usefulness of an individual, or a group of individuals, is not measured in the work they do in the class-rooms, nor in any other pursuit that has to do with themselves only. Their sphere of usefulness is based upon the parts which they take in the various student activities, that go as far toward fitting them for life's work as does the class-room tasks. The Mechanical Engineering students have not been unmindful of the importance of becoming acquainted with things outside their immediate surroundings, and we find them occupying some of the highest places on the campus.

From the fold of the Mechanicals we find first the president of the Student Council, the highest student office on the entire campus. Not only the mere holding of this office should be an object of pride to the Mechanicals, but also should be the extremely efficient manner in which it has been held this year. Next we find the captain of the Band, a most efficient officer in that great organization that is making a name for itself wherever heard. Then come the Military folks and show us their range officer, who is head of the N. C. State Championship Rifle Team, the outfit that made such a record in the Fourth Corps Area matches, in which matches it won first place. In addition, we find in the Military organization a captain and myriads of first and second lieutenants. In athletics we find a letter man and two others who narrowly missed their monogram this year in football, besides a track man who is in line for his letter this season. There is also the president of one of the literary societies, as well as four of the assistant editors of The Technician. Then comes the recently elected vice-president of the Y. M. C. A., followed by three members of The Pine Burr, State's scholarship organization. With such a list of notables as this, the Mechanicals easily prove themselves a most active and worthy group of men, the kind of men who really make a college training amount to something, and who will make themselves amount to something after leaving college.

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Demand

This is the age of the specialist. The "general man" has no place in the modern scientific world. Mechanical Engineering covers a field that is so broad and varied that no man can be an authority in every branch. This fact has lately caused each member of the Senior Mechanical Engineering Class to decide just which one of these branches he likes best and will best suit him for a career.

That there is a great demand for graduates of this course is evidenced by the large number of applications the department has received from the different companies. Altogether, twenty-three (23) companies have offered to take at least one of these men, and some sent application blanks to every member of the class. Evidently some of the companies will have to fail or go out of business, as there are only fourteen (14) men available. Several reasons ascribed to this demand are: (1) The practical value of the course, (2) the reputation of the former graduates in this line, and (3) the bright outlook in industrial conditions.

Incidentally, the General Electric Company was the most fortunate of the competitors for these men, securing three of them. They are Messrs. W. J. Barber, E. F. Graham and W. C. John. Mr. John goes to the Schenectady, N. Y., works, while the other two will be stationed at Lynn, Mass., in the small turbine department.

One member of the class, Mr. Roy E. Smith, will not discard his student robes, but will take up advanced study in Mechanical Engineering at Columbia University, New York. The class as a whole is envious of his opportunity.

Mr. Bonnie F. Norris will assume the duties of general manager and engineer-in-chief of the B. F. Norris & Son Foundry and Supply Co. at Gastonia, N. C. "Bonnie" has been connected with a "gas pipe" since entering the College, and has blown it quite efficiently. We will miss his "gas pipe" in the Band next year.

The Pennsylvania Power and Light Co., at Hazeltown, Pa., secured a mighty good man when they persuaded Mr. Joseph A. Rickards to enter their organization. Without a doubt their many plants will soon be operating on one-half their former coal bill, as "Joe" has a habit of chasing up stray B.T.U.'s.

Mr. Frank Kugler Baker and Mr. D. F. Duncan have accepted positions in the engineering department of the Portsmouth Cotton Oil Refining Corporation. This is a very large concern, operating more than a score of mills throughout the South. These men are very fortunate in being with this organization.

The Frick Company of Waynes-

boro, Pennsylvania, makers of refrigerating machinery, have two very capable men in Mr. C. E. Dedmon and Mr. P. A. Willis. With this couple assisting, the company should make great progress in the near future. A complete revolution in the design of refrigerating machinery is expected from these men.

The wanderlust has reached one member of the class. Mr. R. A. ("Dick") Dill will spend the summer on board ship, assisting his uncle as assistant to the chief engineer. His plans include a trip to Arabia, where he will take a course in "Sheikology." It is feared that after his return he will desert the engineering profession to enter the movies.

Mr. Irving A. Clay has decided to "do his stuff" in the engineering department of the Newport News Shipbuilding and Drydock Company in Virginia. Clay has shown himself

to be quite capable along this line and, no doubt, will prove a valuable man to this company.

Our past Student Government president, Mr. D. B. Vansant, having turned us loose, will try his hand on Davidson College. However, it will be in a different role, as he will have complete charge of their power plant

and buildings. We are assured of his success.

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DAVY EXPERIMENTING WITH

GARNETT IN THE ROYAL SOCIETY

The First Electrochemist

NITROUS oxide, according to the science of a century ago, was "the principle of contagion when respired by animals in the minutest quantities." Mere say-so.

Imaginative yet skeptical Humphrey Davy, who believed in experiment rather than in opinion, "respired" it and lived.

It was this restless desire to test beliefs that made him one of the founders of modern science. Electricity was a new force a century ago. Davy used it to decompose potash, soda, and lime into potassium, sodium, and calcium, thus laying the foundations of electrochemistry. With a battery of two thousand plates he produced the first electric arc—harbinger of modern electric illumination and of the electric furnace.

Czar Alexander I and Napoleon met on a raft to sign the Treaty of Tilsit while Davy was revealing

the effects of electricity on matter. "What is Europe?" said Alexander. "We are Europe."

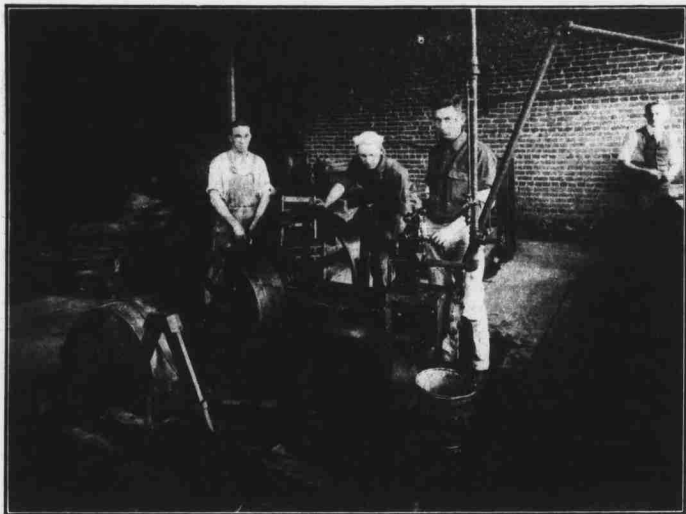
The treaty was at that time an important political event, framed by two selfish monarchs for the sole purpose of furthering their personal interests. Contrast with it the unselfish efforts of Sir Humphrey Davy. His brilliant work has resulted in scores of practical applications of electrolysis in industry and a wealth of chemical knowledge that benefit not himself but the entire world.

In the Research Laboratories of the General Electric Company, for instance, much has been done to improve the electric furnace (a development of Davy's arc) and new compounds have been electrochemically produced, which make it easier to cast high-conductivity copper, to manufacture special tool steels; and to produce carbides for better arc lamps.

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IN THE MECHANICAL LABORATORY

REPAIRS TO BE MADE TO Y.M.C.A. BUILDING

The Y. M. C. A. Building, which has served us so well in the past, is to be repaired so that it will be more serviceable to the student body. There are many changes to be made.

The partition between the kitchen and the bedroom adjoining is to be torn away, making the kitchen double the size it is now. The kitchen at present is entirely too small for the amount of service that is required of it. The change will make it large enough to be used with comfort.

The butler's pantry is to be enlarged, also, when the kitchen is remodeled. A new storage space is also to be made available.

The partition between the two banquet rooms is to be removed, making one large banquet room. At present there is a slide between them, but when it is removed the banquet room will look much better and accommodate more people.

The partition at the end of the parlor is to be removed, making the parlor extend to the wall on opposite side of hall. The large door at the north end of lobby will then open directly into the parlor. The parlor is to be furnished appropriately and will be a room in which we may entertain our visitors from home. It is a much-needed room on the campus.

French doors are to be placed between the parlor and banquet room, and another door leading from parlor to the porch. This door is to take the place of the window at the north end of the porch.

New lights are to be installed in these rooms, also.

The office is to be rearranged to take care of the added office force. A private office is to be made for Mr. King.

The walls of the lobby and auditorium are to be decorated. This is something that needs to be done. The lobby can be made much more attractive by this means and made much more home-like.

The bowling alleys are to be resurfaced and repaired.

Diamond-mesh guards are to be installed in the basement. This is much needed, also.

AN OPPORTUNITY FOR SERVICE

(Continued from page 1.)

engineering takes in a field far too broad for any one person to comprehend. We have need in North Carolina mainly for the textile, the civil, the electrical, and the mechanical engineers.

Let us look into the field offered the mechanical engineer in North Carolina, let us see what part mechanical engineers will play in this industrial progress of ours.

We see every day enormous amounts of machinery shipped into our State. This machinery, it matters not what kind it is, was designed and built by mechanical engineers. Mechanical engineers will superintend its installation and its operation. Let us take a specific instance: Everyone knows, directly or indirectly, of the boundless water power that exists in Western North Carolina. In any manufacturing process, power is of course an important factor. Within the next few years we will need every bit of the power that is now flowing idly over the water-falls of Western North Carolina. How will we get it? Mechanical engineers will design and

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build huge hydraulic turbines, and install them, and operate them, and we have our power. A great service will have been rendered the State, and the nation. Who will render this service? That is the question we must answer with action. Will we continue to "let George do it"—and incidentally let George reap the profits, or will we get busy and take advantage of our own opportunities?

Now is the time to equip ourselves to meet our opportunities, for opportunities are undoubtedly coming to North Carolina. Technically trained men are producers. Get a technical education, get into the work of building up our industries, and you will be performing a service that will be profitable to yourself and of lasting benefit to your State and to society as a whole.

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A VIEW OF THE MACHINE SHOPS

**THE GROWTH OF THE
M. E. DEPARTMENT**

The Mechanical Engineering Department was housed in the old Mechanical Building from its beginning until the summer of 1914. During the vacation period of 1914 the department was removed from the old Mechanical Building into the Shops Building, which was located just west of the Power Plant. This new building provided for the expansion of all of the shops, namely, Machine Shop, Wood Shop, Forge Shop, Pattern Shop and Foundry, and also space for a Mechanical Laboratory. There was no provision, however, to take care of the Drawing Department, and it was continued in the old Mechanical Building until the fall of 1922. The Legislature of 1921 provided \$100,000 with which to build a Mechanical Engineering Building. With this money Page Hall was erected. It is situated just north of the Shops Building and in line with the front of the Power Plant. Page Hall provides quarters for the executive offices of the department and the much-needed class and drawing rooms. The two buildings that the department now occupies gives the best permanent equipment, in which to carry on work, of any Southern school, and in several of our shops we are also better equipped. With a liberal appropriation for permanent equipment already assured the department, there is no reason why the Mechanical Engineering Department should not easily cope with the best schools in the South. In the past eight years the Mechanical Engineering Department has expanded from one small building into two of the largest and best arranged buildings at the College.

Under the Caldwell Act the department was able to secure several up-to-date machine tools, and also several woodworking machines at a very nominal price. These new machines have added greatly to the completeness of the equipment of the department. Emphasis will be placed on obtaining equipment to be used for experimental purposes, since we feel that our shops are very well equipped at the present time, in comparison with our experimental equipment. It is the hope of the department to add some equipment to enable our students to carry on experimental work

in hydraulics, which has not been done at this College in the past except in a very limited way.

To our already well equipped Drawing Department we have recently added an electric blue printing machine and sheet washer. During the vacation period the Wood Shop will build for the Drawing Department new drawing tables and drawing-board cabinets, which are needed to take care of the increased number of students coming to this department for work in Drawing.

The personnel of the department at the present time consists of a professor of Mechanical Engineering and head of the department, associate professor, assistant professor, superintendent of shops, seven instructors, and secretary.

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WHAT MECHANICAL ENGINEERS DO

(Continued from page 1.)

lines of engineering such as named above and more, but mechanical engineering is the safest if you are not sure.

Perhaps you can appreciate what we are trying to say if we cite you to a few of our men who have made good. We do not pretend this to be a comprehensive list, and trust that no one of our graduates will feel that his work has been overlooked.

Graham Hudson Anthony, B.E., 1914, M.E., 1921. Mr. Anthony is vice-president of the Allen Manufacturing Company, Hartford, Conn., developed and perfected the Allen Hollow Set Screw. He was given his M.E. for a thesis on the development of this screw.

Leslie Graham Berry, B.E., 1900. Mr. Berry is president of the Southern Engineering Company, Charlotte, North Carolina.

David Clark, B.E., 1895, M.E., 1896, C.E., 1897. Mr. Clark is owner and editor of the Southern Textile Bulletin, president Highway and Industries, president Industrial and Engineering News, of Charlotte, North Carolina.

William Alexander Graham Clark, B.S., 1897, B.E., 1899, M.E., Cornell University, 1900. Is now textile expert to Tariff Commission.

Wiley Theodore Clay, B.E., 1906, M.E., 1910. Is supervisor of construction for the Board of Missions, M. E. Church, South, in Rio de Janeiro, Brazil.

Weldon Thompson Ellis, B.E., 1906, M.E., 1908. Is professor of power plant engineering and machine design, and director of the power plant at Virginia Polytechnic Institute.

John William Harrelson, B.E., 1909, M.E., 1915. Is associate professor in Mathematics, N. C. State College.

Thomas Kenneth Mial, B.E., 1913. Is manager of the Pittsburgh branch of the Johns-Manville Company.

John Alsey Park, B.E., 1905, of Raleigh, N. C. Is publisher of the Raleigh Times, Fayetteville Observer, New Bern Sun-Journal, and Greenville News.

Ridsen Patterson Reece, B.E., 1904. Is mechanical engineer, Engineering Department of the R. J. Reynolds Tobacco Company, Winston-Salem, N. C.

Richard Vernon Terry, B.E., 1918, M.E., 1921. Is water turbine engineer for the Newport News Shipbuilding and Dry Dock Company. Mr. Terry developed the water turbine that is used altogether by this company.

William Brooks Truitt, B.E., 1907. Is general manager of Production, Carolina Steel and Iron Co., Greensboro, N. C.

Lillian Lee Vaughan, B.E., 1906, M. E., 1917, Columbia University. Is professor of Mechanical Engineering of N. C. State College, and is head of the department.

David Barnes Worth, B.E., 1920. Is chief engineer of the Edwards Railway Motor Co., of Sanford, N. C.

It might be added that the demand for mechanical men is growing every year. Every candidate for graduation this year has had the offer of

at least two jobs already. Most of them are now placed for work as soon as they graduate.

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THE MECHANICAL ENGINEERING SOCIETY

In 1920 the Society Qualified as a Student Branch of American Society of Mechanical Engineers

Since the establishment of the course in Mechanical Engineering, the students taking that course have maintained a departmental society. Largely through the efforts of Mr. A. L. White and other members of the Senior Class, when the college entrance requirements were raised in 1920, the society qualified as a student branch of the American Society of Mechanical Engineers, and is now conducted under the regulations of the national society. The society is composed of the Junior and Senior classes in Mechanical Engineering.

The primary object of the society is to promote interest in engineering among the students and to bring to their attention important engineering accomplishments. The secondary object is the promotion of good fellowship and the development of the social side of the College life.

The society has two meetings each month, at which time technical problems and engineering projects are analyzed and discussed by the students and professors. Those on the programs this year have been largely the professors of the various departments on the hill. We have also had a number of very interesting and instructive addresses by nonresident engineers who have had the experience as well as the theory in engineering. All of these lectures tend to give the student a clearer conception of engineering and the possibilities of this profession.

Under the able leadership of Mr. I. A. Clay, Jr., this has been one of the most successful years that the society has had. For the last two years the society has been sending a representative to the National Convention of the A. S. M. E. Mr. Clay was chosen as our representative this year, and he returned with a store of information that enlightened us on the accomplishments of the greater engineers of the day. At these conventions, the student representatives from all the colleges are given helpful suggestions as to the best manner of conducting the student organizations. Several times a year the national headquarters send their men to the branch organizations for the purpose of giving lectures and assisting in any other manner possible. Throughout the year our secretary, Mr. R. E. Smith, has secured interesting and instructive moving pictures along industrial lines from the large manufacturing concerns of the country.

Through the society, the Mechanical Engineering Show had its beginning last year and has now been established as an annual event. By means of the show, the people at large are given an opportunity to see what we are doing in our department and the kinds of training included in the course.

Such an organization adds much to

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the interest of the regular school work, and enables the student to gain valuable experience in making reports on investigation and in expressing himself clearly before an audience. It also brings the students in personal contact with their instructors and with other men who have made a success in engineering.

OUR STRONGEST TEAM

With Beatty, P. C., and Wallis, S. G.,
And Crater and Hoey, too,
They're going to make N. C. State
The school for me and for you.

With Beatty at head, it is enough
said,

Our College will be the best
In this fair land, for every man—
'Twill pass by every test.

And Crater will be, as you can see,
His worthy and trusty aid,
To make every trouble explode as a
bubble,
And a record that ne'er shall fade.

Wallis is scribe in whom we confide,
To help make the Government go.
He'll keep the proceedings of each of
the meetings,
So future men may know.

Hoey's cashier for the coming year;
He will take care of the purse.
There is no better one to take charge
of the fund—
We can't do him justice in verse.

These worthy men will do the best
they can,
To make next year a success.
They'll give all they've got, and that's
a lot,
To make our College progress.

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STUDENTS AT WORK IN THE FORGE SHOP

REPAIRS TO Y.M.C.A. BUILDING

(Continued from page 4.)

The stairways are to be repaired and made more attractive by decorations. The flags are to be removed and appropriate pictures will be placed on the landing.

The auditorium will be made more attractive by the addition of new seats. At present the appearance is spoiled by the seats. The new seats are handsomely made and will add much to the appearance of our auditorium. The unsightly window panes are to be removed and clear ones put in. Shades are to be added, to be used when movies are shown.

The second floor of the building is to undergo a change, also. Shades

are to be put on all the windows and the walls retinted. The plaster is to be patched in the society halls, making them much more attractive.

Two new bulletin boards are to be made and placed in convenient

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places, taking the places of the old ones, which are not very attractive.

The phone booths, which have served us so well, are to be made into the wall, taking the place of the dark-room. This will add much to the auditorium. In the place where

the old booths are, a door leading to the bedrooms will be placed. This will make them much more convenient.

With the changes mentioned, the "Y" will attract more of the boys than ever.

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BETWEEN

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AND

CINCINNATI

—VIA— **ASHEVILLE, N. C., and KNOXVILLE, TENN.** ON THE FOLLOWING SCHEDULE:

	WESTBOUND No. 21	BEGINNING APRIL 29, 1923	EASTBOUND No. 22	
	9:00 AM	Lv. GOLDSBORO, N. C.	Ar. 11:20 PM	
	9:45 AM	Lv. Selma, N. C.	Ar. 10:30 PM	
	10:40 AM	Lv. RALEIGH, N. C.	Ar. 9:35 PM	
	11:35 AM	Lv. Durham, N. C.	Ar. 8:36 PM	
	12:44 PM	Lv. BURLINGTON, N. C.	Ar. 7:32 PM	
	1:40 PM	Lv. GREENSBORO, N. C.	Ar. 6:35 PM	
	2:50 PM	Lv. WINSTON-SALEM, N. C.	Ar. 5:25 PM	
	5:10 PM	Lv. STATESVILLE, N. C.	Ar. 3:00 PM	
	9:40 PM ET	Ar. ASHEVILLE, N. C.	Lv. 10:45 AM	
	9:50 PM ET	Lv. ASHEVILLE, N. C.	ET Lv. 10:35 AM	
	8:50 PM CT	Lv. ASHEVILLE, N. C.	CT Ar. 9:35 AM	
	1:10 AM	Lv. KNOXVILLE, TENN.	Ar. 5:25 AM	
	3:20 AM	Lv. HARRIMAN, TENN.	Ar. 3:20 AM	
	7:40 AM	Ar. DANVILLE, KY.	Lv. 10:30 PM	
	8:10 AM	Lv. Danville, Ky.	Ar. 7:45 PM	
	11:55 AM	Ar. LOUISVILLE, KY.	Lv. 4:00 PM	
	8:45 AM	Ar. LEXINGTON, KY.	Lv. 9:20 PM	
	11:20 AM	Ar. CINCINNATI, OHIO	Lv. 6:45 PM	
	12:00 noon	Big Lv. CINCINNATI, OHIO	Big Ar. 6:15 PM	
	2:35 PM	Four Ar. INDIANAPOLIS, IND.	Four Lv. 3:20 PM	
	8:05 PM	Route Ar. CHICAGO, ILL.	Route Lv. 10:10 AM	

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