

BRAWL COMMITTEE SAYS STAGE IS SET FOR FESTIVE EVE

Knights of St. Patrick Will Be Dubbed and Trophies Presented

BRAWL TO BEGIN AT 7:30

Twelve Freshmen To Be Made Companions of the Order—"St. Pat," G. P. Hall, and Queen Will Preside—Carolina Buccaneers Will Play for the Dance.

The committee in charge of the "Grand Brawl," which will wind up the program for Engineers' Day, announces through its chairman, "Jeff" Davis, that everything is in readiness for a festive evening that will be long remembered on the campus.

The Carolina Buccaneers of the University have been secured to furnish the music for the dance. They have the reputation of being one of the best orchestras in the state. The affair is scheduled to start promptly at 7:30 p.m., at which time "St. Pat" (G. P. Hall), his queen and court will enter the gym. The ceremonies will begin immediately afterward.

The names of the seniors who will be dubbed Knights of St. Patrick will not be announced until the night of the "Brawl." It is hoped that the entire class will be present, as in case of absence their election is made void. Certificates will be presented to each initiate.

The twelve frosh who are to be made companions of the Order of St. Patrick have been notified. Each of these men is an outstanding freshman in the department which they represent.

The members of the faculty that have been elected to the Order of St. Patrick will also be dubbed knights at the "Brawl." The entire engineering faculty should be on hand and join in the festivities.

The winners of the cups for the best float and the best show of the day will be announced and the cups presented during the ceremony.

After the ceremony and program have been completed, the balance of the evening will be given over to—Continued on page 2.

Program of Engineers' Day

9:30 a.m.—Formation of parade in front of Memorial Tower.
11:00 a.m.—Parade down Fayetteville street.
4:00-5:00 p.m.—Fair of various departments.
7:30 p.m.—Initiation of companions of St. Patrick and "dubbing" the Knights of St. Patrick.
9:00 p.m.—Grand "Brawl."

ALUMNI WILL CELEBRATE ST. PAT'S DAY IN GROUPS

R. M. Rothgeb Has Arranged Alumni Luncheons in Several Cities

Something new has been instituted by the Engineers' Council this year in organizing throughout the state and country the engineers who have graduated from State College for an Engineers' Day celebration. R. M. Rothgeb, who has had charge of this feature, has been busy for several months past and has succeeded in arranging at least six or seven get-together dinners to be held on the evening of St. Patrick's Day.

The idea behind the movement is to give an opportunity for the engineering alumni to get together at least once a year and renew acquaintances and make new ones. It is expected, too, that such meetings will help in producing a closer bond among the alumni and the development of a stronger professional esprit.

While the beginning this year is excellent, it is anticipated that as the present undergraduates, who have entered the Engineers' Day programs, go out into the profession, the idea will spread and the number of annual gatherings increase.

The gatherings which are assured this year will be held in the following cities: Pittsburgh, Philadelphia, Weynesboro, Pa., Charlotte, Greensboro, Newport News, Asheville, N. C., Cleveland, Ohio.

MASQUERS' TRYOUTS

Masquers' tryouts for "The Valiant" (which has been permitted to be produced) will be held Monday and Tuesday, in Room D, Pullen Hall.

PRESIDENT.

ENGINEERS HAVE COUNCIL TO DIRECT THEIR ACTIVITIES

Engineers' Council Has Excelled Expectations Of Founders

TWELVE MEN ON COUNCIL

Two Outstanding Students From Each Department of Engineering Compose Membership of Council—Seven Members Belong to Tau Beta Pi.

When the Engineers' Council was founded three years ago at North Carolina State College the idea behind it was to organize a group composed of the twelve outstanding engineering students, which would assume the leadership in all the student activities of the School of Engineering. That the organization has lived up to the expectations of its founders is clearly shown by the success of Engineers' Day last year, the promised success of the celebration this year, the increased activity of the technical societies, and the general building up of an "esprit de corps" among the students of the school.

That the engineering students have elected the outstanding engineers to represent them is evidenced by the presence on the council of seven members of Tau Beta Pi, engineering honor fraternity, the key of which is the distinguished service medal of the engineering schools and colleges. It is probably safe to say that no—Continued on page 2.

G. P. "SPIKE" HALL, ALIAS ST. PATRICK



This promising architect, president of the Engineers' Council, will be dressed in the ancient Irish costume of St. Patrick during the celebration of the patron saint's day tomorrow. He and his queen will reign supreme at the Brawl tomorrow night.

Accomplishment Record of Experiment Engineers Great

Progress in the use of power and machinery, the provision of transportation facilities, the prosecution of commercial enterprises, and the growth of industry make highly important contribution to the life of the people of a state not only in the way of material prosperity, but also in social well-being, not only in providing

gainful occupations, but also in permitting individual development and education. North Carolina's progress in education, in schools and transporting pupils, in highway improvement, in electric power developments, and in manufacturing and industry, is so well known to the people of the United States as to need no further comment here.

It is the business of the state to provide for the welfare of its people, and the promotion of industry and commerce, properly safeguarded, is one of the means to that end. To be effective, the state must act through organized and capable agencies. Among such agencies, the Land Grant College can be made very potent in the development not only of agriculture, but also of industry.

In order to be of greater service to the state, North Carolina State College established the Engineering Experiment Station in 1923. Its objectives are to make such experiments—Continued on page 6.

ENGINEERS WILL OBSERVE ST. PAT'S DAY TOMORROW

Governor McLean and State Officials Will Review Parade

HOLIDAY FOR ENGINEERS

Will Mark Second Celebration of Its Kind—Program Will Consist of Parade, Fair, and "Grand Brawl"—Engineers Bedecked in Full St. Patrick Regalia Will Parade Through City.

Tomorrow the engineers of the campus will for the second time celebrate St. Patrick's Day with the annual parade, fair, and "Grand Brawl." The day has been declared a holiday for all engineering students by the Faculty Council in order that they may participate in the program. The parade, under direction of the Grand Marshal, Col. J. W. Harrelson, and his aides, will form in front of the library at 9:30 a.m., where hats, canes, and regalia will be distributed.

The column headed by "St. Pat" and the engineering faculty, and with the floats bringing up the rear, will march to Fayetteville and Cabarrus streets. At that point Governor McLean and the band will meet the marchers and head the parade through Fayetteville Street to the Capitol, where the Governor and state officials will review it.

It is anticipated that the parade this year will be the most spectacular yet attempted, and every engineer is urged to be on hand to make it an outstanding event.

In the afternoon all engineering students will present themselves to their respective departments for assignment to the exhibits. Every student will be given some part in the various departments.

All indications point to the Engineers' Fair of 1928 being the most successful ever held.

The "Grand Brawl" will start at 7:30 in Frank Thompson Gymnasium. After the initiation of the twelve outstanding freshmen in the—Continued on page 2.

History of E. E. Department Shows Progress Since 1895

The first course in Electrical Engineering offered at State College was given by Lieutenant Richard Henderson, who was then professor in Military Tactics and Physics. No differentiation in the instruction in engineering was made at that time, as the only courses in the College catalog were those in Agriculture and Applied Mechanics. The course given seems to have been largely elementary and the

practical work limited to house and bell wiring.

In 1895 the designation of the curriculum was changed from "Applied Mechanics" to "Engineering and Mechanics." Dr. Nathan Hale Barnes, a graduate of the Naval Academy, was secured as professor of Physics and Electrical Engineering and Military Tactics, and the work in Electrical Engineering was increased. A few—Continued on page 5.

THE ENGINEER

Who is the man who designs our pumps with judgment, skill and care?
Who is the man that builds 'em and who keeps them in repair?
Who has to shut them down because the valve seats disappear?
The bearing-wearing, gearing-tearing MECHANICAL ENGINEER.

Who buys his juice for half a cent and wants to charge a dime?
Who when we've signed the contract can't deliver half the time?
Who thinks a loss of twenty-six per cent is nothing queer?
The volt-inducing, load-reducing ELECTRICAL ENGINEER.

Who is it takes a transit out to find a sewer tap?
Who then with care extreme locates the junction on the map?
Who is it goes to dig it up and finds it nowhere near?
The mud-bespattered, torn and tattered CIVIL ENGINEER.

Who thinks without his products we would all be in the lurch?
Who has a heathen idol which he designates research?
Who tints the creeks, perfumes the air, and makes the landscape drear?
The smell-evolving, waste-dissolving CHEMICAL ENGINEER.

Who builds a road for fifty years that disappears in two?
Then changes his identity, so no one's left to sue?
Who covers all the traveled roads with a filthy oily smear?
The bump-providing, rough-on-riding HIGHWAY ENGINEER.

Who is that dusty clay prospector standing on the hill?
Who sits about and from the dips decides just where to drill?
Who finds us any clay we want and says "Start mining here?"
The mud-pie-making, enamel-baking CERAMIC ENGINEER.

Who architects the blue-prints for our castles in the air?
Who musses our ideas up and makes us tear our hair?
Who murders all the plans we have and still stays in the clear?
The pencil-pawing, art-destroying ARCHITECTURAL ENGINEER.

Who measures all the forces in a molecule of tin?
Who'll talk of micro-farads to a Malay or a Fin?
Who tells us how our ergs are spent, and why and when and where?
The time-deferring, loss-incurring PHYSICS ENGINEER.

Who is the man who'll draw a plan for all you may desire—
From a trans-Atlantic liner to a hairpin made of wire?
Who "its" and "ands" "howevers" and "buts" to make his meaning clear?
The work-disinabling, fee-retaining CONSULTING ENGINEER.

Who takes the pleasure out of life and makes existence hell?
Who'll fire a real good-looking one because she cannot spell?
Who substitutes a dictaphone for a coral-tinted ear?
The penny-chasing, dollar-wasting EFFICIENCY ENGINEER.

Three Objectives Sought in Engineering, Says Riddick

When North Carolina State College (then called the North Carolina College of Agriculture and Mechanic Arts) opened its doors to students in September, 1889, the field of Engineering Education in the state was absolutely virgin—not merely virgin, but unexplored and uncharted.

Certain young men, members of the Watauga Club, and others, saw that something was wrong with our state and had a rather dim vision of what was needed, namely, a new type of education for our boys. But if one reads their discussions of the subject he is impressed with the fact that their conceptions were extremely vague and that no two of them had the same ideas as to the kind of education needed and the character of the institution which should give it.

Since its beginning, then, the college has been a trail-blazer in engineering education, with three problems, or three major objectives before it. The space allotted me is sufficient for a mere statement of these problems or objectives without elaboration.

First, to give such instruction to its students as would prepare them for leadership in the State's material development, and, at the same time, enable them to hold their own in competition with men from other institutions. The roster of our alumni with the positions they occupy in this and other states proves conclusively that this is being done.

Second, to build up within its students and graduates, and other engineers throughout the state, an esprit de corps and a professional consciousness which will cause them to consider their occupation not merely as a road to private gain, but as a means of serving their day and generation. To—Continued on page 2.

Mining Department Stresses 'Open Cut' Method Operation

The Department of Mining Engineering, now three years old, is one of the newest additions to the growing School of Engineering. Established primarily to train "miners" for the particular mining problems of the state and the south, it has attracted several students.

As most of the minerals of the south are non-metallic and the majority of the mines are operated by the "open-cut" method, special emphasis is given to this type of mine operation. In this respect the course differs from all others in the country. Graduates of this department will not only be fitted to make connections with the phosphate, marble, granite, gypsum, clay, sulphur, and other like industries, but will be particularly well trained for geological survey work and the development departments of southern railroads.

ATTENTION, SENIORS!

Senior class meeting Wednesday night, March 21, 1928, 6:30, at the "Y" auditorium. Several important matters to be taken up and acted on. Please be present.

PRESIDENT.

POPULAR SCIENCE LECTURES

Under auspices Phi Kappa Phi Honor Society, North Carolina State College, Y. M. C. A. auditorium, Friday evenings at 8:00 o'clock:

Sociology—Dr. C. C. Taylor, March 23.
Education—Prof. T. E. Browne, March 30.
Ceramics—Prof. A. F. Greaves-Walker, April 6.
Agriculture—Prof. I. O. Schaub, April 13.
Architecture—Prof. R. B. Shumaker, April 20.
Engineering—Prof. W. H. Browne, April 27.
Textiles—Prof. T. P. Nelson, May 4.

Ceramic Engineering, 'The Infant,' Shows Great Growth

The Department of Ceramic Engineering, one of the "infants" of the School of Engineering, has shown remarkable growth in the three years of its existence. Established primarily to promote the ceramic industries of North Carolina and to thus provide plants in which its graduates might find employment, it has exceeded the fondest hopes of those who sponsored it.

In the three years since the department was established the growth of the ceramic industries in the state has been remarkable. Up to 1924 the total investment in these industries since their establishment in Colonial days did not exceed \$1,000,000. In the brief period since that date approximately \$5,000,000 in new capital has gone into improvements to existing plants and into new plants and properties. Approximately \$10,000,000 more will be invested within the next year. This development has not been confined to any particular branch of the industry, but has included structural clay products, kaolins, feldspars, and others. During this period of expansion the department has made a very comprehensive survey of the ceramic raw materials of the state, a survey of the existing plants, and has also made hundreds of reports on samples sent in by individuals.

At the present time it is working under the auspices of the Engineering Experiment Station on a research project which through tests will determine the physical properties of all the ceramic raw materials and products of the state. This information will be of great value to engineers, architects, and constructors.

The class of 1928 will include five graduates in Ceramic Engineering, making a total of seven since the course was first offered three years ago. Practically all of these graduates will locate within the state of North Carolina.

The department is also carrying on a large extension program by means of correspondence courses. It has enrolled several hundred students in the past few years. These men represent every state in the Union as well as several of the countries of Europe, Asia, South America, and Australia.

During the past years the equipment in the Ceramic Building has been gradually increased as funds became available, until it is now nearly complete. The machine laboratory contains a full-size brick and hollow-tile machine and cutting table and a full-size dry and wet pan. It also contains a filter press, ball mill, dry press, potter's wheel, and other equipment of laboratory size for carrying on student and research work.

The kiln room contains four gas kilns. The largest is used for burning structural products and a smaller one for pottery and test burns. A small muffle furnace is provided for glass melts and another for fusion tests.

The dryer laboratory is equipped with a humidity dryer, electrically heated, which is used for large pieces and also an electric drying oven for small pieces.

The Silicate Laboratory, funds for which were contributed by the ceramic interests of the state, has been fully equipped and is now being used for research on North Carolina ceramic materials.

North Carolina and other southern states contain the world's largest deposits of the principal ceramic raw materials. Development of these valuable resources has been hindered principally because of the lack of ceramic engineers, there being only seven in the entire South at the present time. To design and operate modern plants for the manufacture of cement, glass, enameled iron, and steel products, white ware, refractories, and structural products requires the best engineering skill. It is in training engineers to develop these industries that the Department of Ceramic Engineering at State College is destined to make a great contribution not only to North Carolina but to the entire South.

The Ceramic Engineering curriculum has been especially designed to meet Southern problems and with the splendid cooperation of the ceramic manufacturers of the State in giving students summer work the graduates will be well equipped to take advantage of the many opportunities offered them.

"Best-Dressed Man Contest" To Be Held By London Shop

A "Best Dressed Man Contest," sponsored by Huneycutt's London Shop, will be conducted among the student body of State College, beginning tomorrow. The winner will be given a complete outfit of wearing apparel. The contest will end Friday, March 30. Each and every bona fide student will be eligible to cast a vote. The candidates for this honor must be in regular attendance at the college and up with his work. In case the winning candidate does not have passing grades the next highest will receive the honor.

Mr. Huneycutt says that ballots will be mailed to every student by tomorrow, and that they must be deposited in the ballot box at his clothing store. Every man who votes will be required to register.

ATTENTION, JUNIORS!

Samples of senior rings are now on display at the Students' Supply Store. It is very important that all juniors look these samples over as soon as possible and decide the finish wanted. Orders for rings will be taken soon.

1929 RING COMMITTEE.

MOORE ELECTED CAPTAIN 1929 WRESTLING TEAM AT BANQUET TUESDAY NIGHT

Joe Moore, of Lenoir, was elected captain of the 1929 wrestling team at a banquet Tuesday night at the home of Coach Drennen. W. C. Parrish was elected manager of the team for the coming year.

W. C. Leary, who piloted the grapplers this past season, made a short talk on the cooperation and good sportsmanship demonstrated this season. Coach Drennen spoke of the past season's work, praising the men for

the fine spirit they had shown, even though a greater number of the matches were lost, and expressed his faith in the men to keep themselves in good physical condition for next year's season.

Three Objectives Sought In Eng. Courses, Says Riddick

(Continued from page 1)

tomorrow's celebration at the college, and the establishment of the North Carolina Society of Engineers, with the great work it is doing, give some indication of what has been accomplished in this direction.

Third, to educate the people of the state at large into the knowledge that engineering is a learned and honorable profession and that first-class service is just as necessary in engineering as it is in medicine, the law, the ministry, or in the schoolroom. As an example of what has been done in this respect, attention is called to the law licensing engineers, and establishing standards for the profession, which was enacted six years ago.

In conclusion, let me call attention to the fact that the present area of rapid development in the state began a few years after the college was established, and the state and the college have expanded simultaneously. Which one is the cause and which the effect I shall not say, but unless the

two are related, each to the other, it is, indeed, a most remarkable coincidence. W. C. RIDDICK.

Engineers Have Council to Direct Their Activities

(Continued from page 1)

organization on the campus is called upon to devote more time to looking after the interests of the students. It is certainly true that Engineers' Day is the biggest student project of the college year.

Members of the council are elected annually, two being chosen from each of the six departments of the Engineering School. The elections take place early in May and the new council is installed later in the month.

The members of the council who have served during the past year and some of their activities are as follows:

G. P. Hall, '28, president; "St. Pat"; Tau Beta Pi; Architectural Club; Theta Tau; Order of St. Patrick.

P. E. Trevathan, '28, vice-president; Tau Beta Pi; American Ceramic Society; Beta Pi Kappa; Pine Burr; Student Government.

Jeff C. Davis, '28, secretary; Tau Beta Pi; American Institute of Electrical Engineers; Theta Tau; Golden Chain; Technician Staff; Student Council.

A. McK. Greaves-Walker, '29,

treasurer; Tau Beta Pi; American Ceramic Society; Beta Pi Kappa; Panhellenic Council; Monogram Club.

R. W. Haywood, Jr., '28; Tau Beta Pi; Chemical Engineering Society; Orchestra and Band; Scabbard and Blade; Gamma Sigma Epsilon; Mu Beta Psi.

J. M. Kilgore, Jr., '28; Tau Beta Pi; American Institute Electrical Engineers; Pine Burr; Monogram Club.

E. A. Presslar, '28; Tau Beta Pi; American Society Mechanical Engineers; Student Government.

E. D. Hubbard, '29; American Society Civil Engineers; Student Government.

J. W. Norman, Jr., '29; Chemical Engineering Society.

R. M. Rothgeb, '28; American Society of Mechanical Engineers.

C. S. Rowe, '28; American Society of Civil Engineers; Student Government.

D. N. Bordner, '29; Architectural Club.

Brawl Committee Says Stage Is Set For Festive Eve

(Continued from page 1)

dancing, which will continue until midnight. All students who are registered in the School of Engineering for the third term, and all invited

guests, are requested to bring their ladies. Students will receive admission cards upon presenting their registration cards at the door.

The council is sending out invitations to the Fair and "Brawl" to engineers in all parts of the state. It is expected the gym will be filled to capacity with students, faculty members, engineers, and their ladies. Concessions have been granted for a refreshment booth and a hat and coat checking booth in the lobby. Those attending will be able to enjoy the "Brawl" without fear of losing their wraps, and will be able to obtain refreshments without leaving the building.

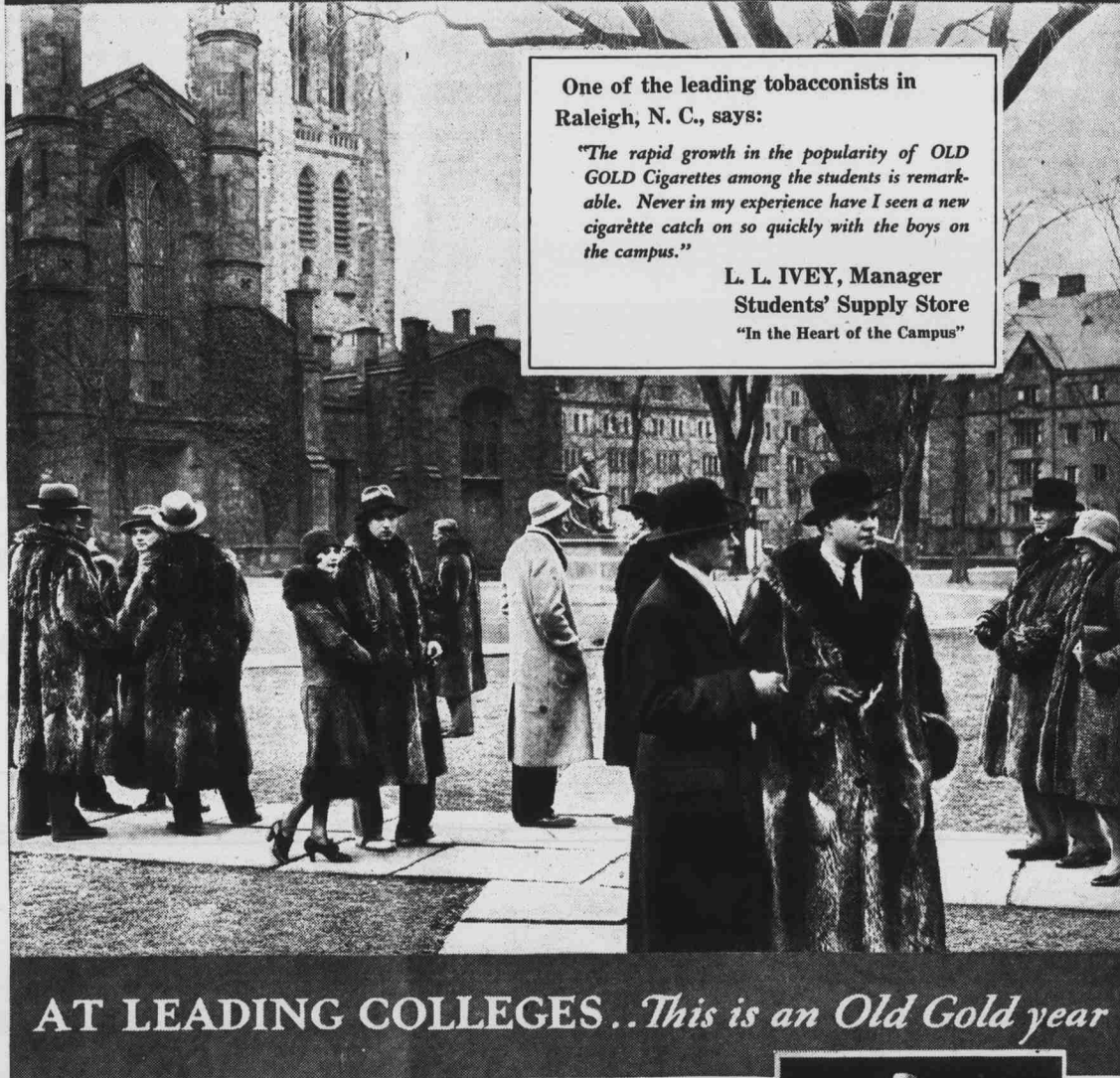
Engineers Will Observe St. Pat's Event Tomorrow

(Continued from page 1)

School of Engineering as companions of St. Patrick, the seniors elected will be dubbed Knights of the Order. Following the knighting ceremony, the floor will be cleared for the closing event of the celebration, the engineers' dance. Admission of students to the "Grand Brawl" will be by registration card only. Guests will present cards, three hundred of which have been sent to engineers throughout the city and state.

The success of the program depends on the engineers themselves. Every man is expected to do his duty.

not a cough in a campus-ful!
(and of course, "not a cough in a carload")



One of the leading tobacconists in Raleigh, N. C., says:

"The rapid growth in the popularity of OLD GOLD Cigarettes among the students is remarkable. Never in my experience have I seen a new cigarette catch on so quickly with the boys on the campus."

L. L. IVEY, Manager
Students' Supply Store
"In the Heart of the Campus"

AT LEADING COLLEGES.. This is an Old Gold year

For a most refreshing change:

"Follow your friends and switch to this smoother and better cigarette"



Industries of South Demand Many Chemical Engineers

In view of the fact that chemical industries have developed so fast in the South and some of the largest in the United States are located in this state and adjoining states, the need for men trained in Chemical Engineering is great. These companies are seeking men with character and the right training to control their processes and to superintend the operations of their plants. Municipalities require chemical engineers to safeguard the health of the people by proper design and operation of their water supplies and sanitary systems.

Chemical engineering pertains to the engineering problems of chemical industries and processes, such as suitable materials, design of plant, machinery, and equipment, construction and operation of chemical plants. The chemical engineer decides upon the best process, devises economic methods of operation, strives for exact manufacturing control, discovers the sources of loss, and the value of by-products, recovers and converts waste

products, makes industrial calculations of input and output, and operates the plant for efficiency and quality. His work is concerned with the manufacture of such necessary materials as paper, metals, refined oils, fertilizers, glass, rubber goods, paint, and with

Two Architectural Aims Are Toward Utility and Beauty

The purpose of architecture is to serve a definite practical end in such a way as to enable that end and give delight thereby. The aim is twofold. Architecture must serve the purpose of utility and also provide beauty. It is the result of man's effort to build beautifully.

The first requirement in architecture is the inherent love of beauty, which is translated into the ability to design both from the artistic side, that the structure may present an agreeable appearance, and from the practical side, that it may be suitable to its practical requirements.

Next in importance are those allied technical studies in engineering so essential to safe and economical construction. The student of architecture must also be schooled in the fundamentals of broad cultural training everywhere recognized as indispensable to an architect's success. With this in view, the Architecture Department has arranged its curriculum accordingly.

The Department of Architectural Engineering is one of the youngest of the engineering divisions to be established at State College. It was formed in 1923 as one of the three groups composing civil engineering. Since then it has had a very rapid growth, so much so that it was made a separate and distinct department in June, 1927. The growth henceforth will be more that of a steady and permanent expansion comparable to that of the college as a whole.

The curriculum is so arranged as to give to the student a thorough grounding in the general engineering principles underlying good architectural practice, together with design and composition. The business and ethics of the profession are studied as well.

With the opening of the coming school year, the department will be housed in the entire third floor of the new Physics-Electric Building. Ample space will be provided for

such community enterprises as the purification of water.

Since the training in chemical engineering includes the basic courses in chemistry, in engineering, and particularly in chemical engineering principles, the graduates are prepared to enter successfully into the various fields of chemical activity. All of the graduates of this department have succeeded in their profession and have been steadily promoted.

drawing purposes. There will be three large drafting rooms, studio, and fresh-drawing rooms, an up-to-date photographic laboratory, and a lecture room, well equipped to deliver illustrated lectures.

During the past year the department has taken an active part in the campus building program, and it is expected that in the future it will be called upon for a still greater contribution in this line.

Throughout this state and the entire Southland there is a great field of usefulness for better architecture, and this department is earnestly endeavoring to fill that need.

HIGHWAY DEPARTMENT CLOSES SHORT COURSE

"Use and Testing of Paving Materials" Considered Successful for Engineering Men

The Highway Engineering Department, under the direction of Prof. Harry Tucker, has just concluded a very successful short course for highway and municipal engineers on the "Use and Testing of Paving Materials."

The course lasted four days, March 6 to 9, inclusive, and was attended by representative engineers from all sections of North Carolina.

Quoting Mr. George B. McGrath, an engineer of Raleigh who attended

Graduates in Civil Trained For State Development Work

The curriculum of the Department of Civil Engineering is arranged so as to give its graduates such training as will enable them after leaving college to participate in the development of the state along material lines. The graduate is afforded sufficient opportunities to accomplish this, by assisting in the development of the water powers, building railroads and public highways and designing water supply systems and in general municipal engineering developments. The young man, as a student, taking work in this department is given ample practical experience in the field, in the drawing room, and in the laboratory. He acquires a fair degree of efficiency in the use of drafting and surveying instruments.

The aim has been to make this pre-eminently a technical course, but subjects of general culture are included in order to give the student a broad mental training and a better preparation for social and business life.

The Freshman year in this department is the same as the freshman year in all the other departments in the School of Engineering. The professional work begins in the first term of the sophomore year. It is recognized that an engineer to be successful must be equipped with a well trained mind, one that reasons logically, accurately, and quickly. With this in view a full course is given him in those branches of applied mathematics which are involved in the solution of engineering problems.

Students taking the regular work leading to a degree in Civil Engineering may elect at the beginning of the senior year, work in the Highway En-

gineering Department. Also an option in Construction Engineering is available to those who wish to follow this branch of the profession. There is a curriculum also in Sanitary Engineering which is offered at the completion of a four-year course in Civil Engineering. Those Civil Engineering students who wish to specialize in Sanitary Engineering as a profession may register as graduate students and pursue this course. Although the department graduates its full quota of engineering students it falls short each year of supplying the demand for its graduates.

"Always The Same" says Pipe-Smoker

Charleston, S. C. February 10, 1927

Larus & Bro. Co., Richmond, Va. Gentlemen:

I've done a lot of pipe smoking. There's hardly a brand or a blend that I haven't tried out at some time or other.

But speaking of smoking tobacco that brings real enjoyment, and never changes, I want to say that there is just one tobacco that gives me real enjoyment in my pipe—Edgeworth.


I have used Edgeworth Ready Rubbed and Plug Slice for over five years, in all climates and under all conditions, and I find it always the same. It is always mellow and moist, and its genuine flavor lasts. There is no bite or parch in Edgeworth, and the quality, whether you buy it in small or large quantities, is always perfect. Thanks to the manufacturers for their wonderful product, and I hope that Edgeworth can always be obtained by the undersigned.


Guy B. Beatty

Edgeworth
Extra High Grade
Smoking Tobacco

CLOTHES
Ready-made
And Cut to Order

ESTABLISHED ENGLISH UNIVERSITY
STYLES, TAILORED OVER YOUTHFUL
CHARTS SOLELY FOR DISTINGUISHED
SERVICE IN THE UNITED STATES.


Charter House
Suits \$40, \$45, \$50 Topcoats


Charter House

**BY SPECIAL APPOINTMENT
OUR STORE IS THE**

Charter House
of Raleigh

The character of the suits and
topcoats tailored by Charter House
will earn your most sincere liking.

KING & HOLDING
8 West Martin Street

Step Around the Corner and Get a Real COCA-COLA at

15 W. Hargett Street **O'Kelley's** In Odd Fellows Building

A Real "Jewish" Boy
CIGARS : TOBACCO : DRINKS

Who Is the Best Dressed Man on Campus?

WE HAVE HEARD THIS QUESTION DISCUSSED ON ALL SIDES
AND NOW WE ARE GOING TO LET YOU DECIDE.

Best Dressed Man Contest

Sponsored by HUNEYCUTT'S LONDON SHOP

- AIMS**
1. To give a better idea of what others are wearing here and elsewhere.
 2. To develop better taste in selecting clothes.
 3. To create more pride in wearing them.
 4. To place the standard of dress more in keeping with the dignity of the college.

PRIZE--The Winner Will Be Given a Complete Outfit of Wearing Apparel

RULES: Eligibility is confined to any man in regular attendance at the college. Ballots are being mailed to each member of the student body. Votes must be deposited at Huneycutt's London Shop before 6:00 o'clock Friday, March 30.

CAST YOUR VOTE FOR THE MAN WHOM YOU THINK DESERVES THIS DISTINCTION

Huneycutt's London Shop, Inc.
"STATE COLLEGE OUTFITTERS"

The Technician



Published Weekly by the Students of North Carolina State College

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ENGINEERS' DAY

Tomorrow the engineers of this college will celebrate for the second time in honor of their patron saint. Last year a similar event was very successfully held and there is no question about it being an annual affair henceforth. Such a celebration calls for the parade, fair, and Grand "Brawl," according to the program, in which many notables of the state have expressed their interest, including the governor of North Carolina.

The purpose of this day is to promote better spirit among the various departments of the engineering school and show the citizens of this state the work being done along engineering lines at this college. In order to fully accomplish this end we have gladly devoted this issue for that purpose. Each department has made a contribution to this issue telling of the work being done and of its growth since birth.

For many years previous to last, the engineers held fairs that were characterized by a lack of cooperation among the students of the Engineering School; only a few men were responsible for the creditable fairs. But the spirit of the engineers has been awakened anew within the past two years. The Engineers' Council has been organized for the purpose of having its members assume leadership of the engineering activities on the campus. Organization and cooperation have solved the problem of the "George do it" spirit prevalent among the engineers in the past.

Just as the Agricultural Fair is each year the biggest event of that school, so is Engineers' Day a festive and educational occasion for the pursuers of an engineering education.

North Carolina State College has been signally honored by being the first college east of the Mississippi River to have a St. Patrick's Day celebration. This within itself is a great honor, but it should be the ideal of the Engineering School to strive from year to year to make this event more successful. The organization of the alumni into groups in several of the cities in the country is gratifying. It demonstrates that year by year and in every way the engineers are endeavoring to improve upon their annual event.

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A. M. Greaves-Walker, Cer. E.
Manager Fair
Jefferson C. Davis, E. E.
Chairman "Grand Brawl"
E. D. Hubbard, C. E.
Chairman Advertising Committee
R. M. Rothgeb, M. E.
Chairman Alumni Committee

CONSTRUCTION ENGINEERING NOW OFFERED

The curriculum in construction engineering is being offered this year for the first time in order to educate men for the profession of engineering, particularly as it pertains to construction.

Construction is essentially a process of manufacture, consisting of the assemblage of many material commodities, applying labor to them and producing something that did not exist before. In order to appreciate the importance of the construction industry it is only necessary to consider that this industry produces about one-tenth of the total national income, or, stated in dollars and cents, about seven billion dollars.

North Carolina's progress indicates great increase in building and general construction. The construction industry will need more and better-trained men to meet the immediate and future demands. Builders, as few others, need to know at all times exactly where they stand on the projects they undertake. The contractor, to be successful, must conduct his business systematically and economically. Therefore, he must learn not only general engineering technique, but also something of architecture and business methods and practice; he must delve further into construction and learn the principles involved, the methods, practices, and successful policies in use.

Combined into this curriculum are the fundamental courses in the civil engineering curriculum, a few courses in architecture, a few additional courses dealing with business, and special courses in construction engineering in the junior and senior years.

The theory in the construction engineering course is supplemented with frequent inspection trips to projects under construction, and particular emphasis is placed upon estimating and modern methods and management of construction operations.

This curriculum is designed to prepare the student to enter into the work of actual construction of modern structures and to lay a foundation for future executive work in the field of construction engineering.

Hon. J. Stitt Wilson Will Speak Here March 19-21

Hon. J. Stitt Wilson, formerly mayor of Berkeley, California, will be here for a return engagement March 19-21, inclusive, under the auspices of the Y. M. C. A. Although this will be Mr. Wilson's fifth trip to State College, it is safe to say that each lecture will be filled with new ideas and enthusiasm. His general theme will be "Education and Life."

The schedule of lectures will be:

Monday, March 19—11 a.m. and 6:30 p.m.

Tuesday, March 20—12 noon and 6:30 p.m.

Wednesday, March 21—12 noon and 6:30 p.m.

All of these lectures will be delivered in Pullen Hall and will be to the public. Each of the six lectures will be an integral part of the general theme and one should attend all of them to get the greatest value from the series.

Mr. Wilson has made a profound impression on State College and Raleigh in the past. This is shown by a quotation from a letter by one of our faculty members: "... We have never had at State College, since I have known anything about it, a more valuable series of addresses."

A business man writes: "I take great pleasure in stating that I enjoyed hearing Mr. Wilson very much and am sorry that I could not have had the pleasure of hearing all his addresses."

A kind old gentleman met his friend, Little Willie, one hot day: "Hello, Willie!" he exclaimed, "and how is your dear grandpa standing the heat?"

"Ain't heard yet," said Willie. "He's only been dead a week."—Ex.

Highway Course Outgrowth Ten-Year Roadbuilding Era

The Highway Engineering Department is a subdivision of the Civil Engineering Department, and was created in 1919. Since that time a great number of students have taken the special courses in Highway Engineering and have gone forth to assist in building the roads of the counties and of the state.

The development of Highway Engineering during the past ten years has been phenomenal. The building of roads has become one of the biggest public endeavors. And even with the great amount of work that has been done, and the enormous sums of money that have been spent, the building of good roads is only in the beginning. It may be expected, as a result, that there will be an even greater need for highway engineers all over the country. It is primarily the function of the Highway Engineering Department at State College to furnish these engineers as the need develops.

The course in Highway Engineering is so designed that for the first three years the student takes the same work as the regular Civil Engineering students. During the senior year he specializes in courses pertaining par-

ticularly to highway development, construction, and maintenance.

The materials to be used play a very important part in the success of any type of road. For this reason, particular attention is given to the study of materials to be used in highway construction and in the testing of such materials. The Highway Department has a complete laboratory in which all materials used in engineering construction can be tested.

Most of the many improvements in road building in recent years have been developed through extensive research. The Highway Engineering Department at State College has been assisting in certain research projects as far as time and means are available. During the past year a bulletin on "County Roads" has been published by this department with the assistance of the Engineering Experiment Station, and has been sent out to all interested persons in the state. Requests for copies of this bulletin have come to the department from various sections of the United States and foreign countries.

Recently the Department of Highway Engineering, in connection with the Department of Civil Engineering,

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has conducted a short course for highway and municipal engineers. This course covered the use and testing of paved materials, and was attended by engineers from all sections of N. C.

The Department is now assisting in the carrying out of a research project which has as its object the determination of the relative resistance of various road surfaces.

Northway and Chiles Popular Dancers at The Biltmore, Protect Their Wind with Luckies

"We both smoke Lucky Strikes. There's a flavor we can't resist in the toasted tobaccos. And there's another reason we must confess. Dancing is a strenuous profession and we watch our physical condition as zealously as does a long-distance runner. In order to be sure that our wind is always in perfect shape we use only Luckies—the cigarette which doesn't cut the wind."

Madeleine Northway
George Chiles



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Old North State Now Offers Good Field For Mechanicals

The Mechanical Engineering Department at North Carolina State College is the outgrowth of the old "Mechanic Arts Department." The old Mechanical Department was one of the first departments created at the College. The College was originally known as the North Carolina College of Agriculture and Mechanic Arts. It was popularly known as the "A. and M. College."

The original Mechanical Department was organized and operated along manual training lines. With the development of manual training in the high schools and the growth which has occurred in industry in the past thirty to forty years the department had broadened out until it is truly an engineering department.

Mechanical Engineering in its broadest sense covers a very wide field. The curriculum in M.E. at State College covers the fundamental subjects and gives more detailed instruction in machine design; power plant design, construction, operation and maintenance, automotive and gas engine theory and operation, heating and ventilating, refrigeration, and furniture design and manufacture.

A review of the present activities of some of our graduates shows that they are engaged in all of the above enterprises. Industry today owes its great development to machinery. The machine designer is constantly inventing new machines and striving to improve old ones in order to make better manufacturing processes possible.

In spite of the great increase in hydro-electric development within the Old North State in the past few years, the increase in demand for power will require a proportionately large increase in steam-electric stations. In this development the Mechanical Engineer will have an important and responsible position.

The automotive industry is still making great strides and requires mechanical engineers who have a genius for organizing and managing men and the handling of materials.

Heating and ventilating have become more important as factories and office buildings have sprung up all over the state. The general adaptation of this branch of mechanical engineering to such problems within the state is not yet half appreciated.

Refrigeration is not only important but a prime necessity in connection with preserving and transporting perishable food. The great value of the Sandhills peach crop depends upon refrigeration to keep the fruit in the pink of condition for the ultimate consumer.

Furniture manufacturing has become one of the great industries of the state. Students and graduates with creative imaginations find fascinating employment in this more recent branch of mechanical engineering.

The Mechanical Engineering Department at North Carolina State College is particularly well equipped in both personnel and classroom, drawing room, shop, and laboratory facilities to give a thorough curriculum in mechanical engineering.



Packed with drama, as its title suggests, "The Showdown" makes its initial appearance in Raleigh at the Superba Theatre Monday when that picture opens its two days run.

Paramount Famous Lasky Corporation has succeeded in making another hit in their production of "Love and Learn" in which Esther Ralston is starred. The picture comes to the Superba Theatre for two days beginning Wednesday.

Manager Noble Arnold of the Superba Theatre announces to children of all ages that Rin-Tin-Tin comes to his house next Friday for a two days run, in Warner Bros. "Jaws of Steel," an exciting story of young prospectors and desert gold. Ray Eurlight, who directed Rinty in "Tracked by the Police," directed him in "Jaws of Steel," which includes in its cast Jason Robards, Helen Ferguson, Baby Mary Louise Miller, Robert Perry, Jack Curtis, and George Conners.

Antonio Moreno, playing opposite Olive Borden in Fox Films "Come to My House," which opens at the State Theatre for a two days run next Monday and Tuesday, along with five excellent acts of Keith Vaudeville, is seen in one of the most romantic characterizations he has yet achieved before the silver sheet.

The picture is based on the widely read story by Arthur Somers Roche that was published in Liberty Magazine, and it has been brought to the screen under the deft direction of Alfred E. Green. Marion Orth wrote the scenario.

Charlie Chaplin in "The Circus" Peanuts, . . . sawdust, . . . pink lemonade, . . . clowns, tigers, acrobats, wire-walkers, and Charlie Chaplin in his brand new comedy will all be at the State Theatre next Wednesday, Thursday, Friday, and Saturday. Written, directed, and produced by Charlie Chaplin, "The Circus" was two years in the making, and it is the first Chaplin comedy since "The Gold Rush."

Put a shiek in a goof's clothing, and he's still a shiek, regardless of a rubber collar, lack of a shave, or a Hooligan's haircut. And so once again John Gilbert, though given the role of a lowly, poor-born atom in the social scale, shows that he is born to the purple as a magnet of attraction to the fair sex.

In "Man, Woman, and Sin," which comes to the Palace next Wednesday and Thursday, John Gilbert is ably supported by Jeanne Eagles and a notable cast.

"Tumbling River" is the title of the latest Fox Films picture with Tom Mix in the leading role. This comes

to the Palace Theatre next Friday for two days.

History of E. E. Department Shows Expansion Since 1895

(Continued from page 1) machines were secured and laboratory work much improved. The classrooms and laboratory were in the basement of Holladay Hall.

In 1897 Dr. F. A. Weihe came to the college as Professor of Physics and Electrical Engineering and secured a slight increase in the time allotted to work in the Electrical Engineering laboratory.

In 1898 the curriculum was again changed; seniors in engineering were allowed to choose between Civil and Electrical Engineering, and the work in Electrical Engineering was doubled for those students who elected this course.

In 1899 a further differentiation was made; the senior class was divided into groups, those taking Civil, Mechanical or Electrical Engineering. The work in Electrical Engineering, however, was still carried by the Department of Physics and Electrical Engineering.

In 1900 still further differentiation appeared and separate curricula in the three branches of engineering were offered.

In 1900 we find the first mention of an Electrical Engineering laboratory. This was really a part of the old lighting plant, a building which stood in

front of the present dining hall. It contained a Skinner engine, driving a 20 kw. generator and a few small machines. Steam for driving the engine was supplied from the boiler house which stood where the fountain now is. The College had been for a number of years lighting the buildings, but so far as records show no use was made of the lighting plant for instruction purposes until this year. Students in Electrical Engineering will be interested to know that at this time the first mention is made of a course in Alternating Currents.

In 1904 Professor Ellery B. Paine succeeded Dr. Weihe as professor of Physics and Electrical Engineering, and from this time rapid development took place in the work offered in Electrical Engineering. Professor Paine remained but three years, and in 1907 left for the University of Illinois, where he is now head of that large department. He was succeeded by Professor Wm. James Moore, who stayed but one year.

At this time, 1908, the College built what we now speak of as the "Old Power House," the building at present occupied by the Department of Ceramic Engineering, and the original power house became the Electrical Engineering laboratory. It contained a number of machines which are still in use in the new quarters. These were driven by a line shaft, itself driven by the old Westinghouse generator operating as a synchronous motor. The machines were all small and set down on the floor, thus making sure that all graduates in Electrical Engineering had at least strong backs when they left college. Laboratory work was given in this old building until 1911, when the work in Electrical Engineering was moved over into Winston Hall. This building for many years was known as the "Engineering Building," in fact, for a time it was called the "Electrical Building," to the disgust of our Civil Engineering neighbors. The change was a great improvement over the old quarters and the Department felt quite set up, but promptly outgrew its space. The department was still combined with that of Physics, the professor of Electrical Engineering and Physics being one and the same. The courses in Physics were still conducted in the basement of Holladay Hall until 1916, when the Department of Physics was divorced, and Professor Charles M. Heck was made head of the new department.

When the problem of allocating a new building came up in 1915 it was for a time undecided which departments should be moved. The Department of Physics and of Electrical Engineering, which had been divorced for some fourteen long years, offered to come together again in a companionate arrangement and occupy the same building without dissension. It was this agreement to cooperate and work together that secured for these departments the fine quarters they now oc-

cupy. The arrangement has been most helpful, as it brings old friends together again and reestablishes closer contacts between the work in Electrical Engineering and that branch of science to which it is most closely related.

The work now going on at the new building will add two floors to the present structure, the first of which will be shared by the two departments, thus giving considerable relief to the present need for additional classrooms and laboratories. The third floor will house the department of Architectural Engineering. The Department of Electrical Engineering is also looking forward with pleasure to having on its east side its old neighbors in Winston Hall, the Department of Civil and Highway Engineering. It feels that this grouping together in fine new quarters of a large part of the School of Engineering will be decidedly to the advantage of the whole Engineering School. Now what it needs most is additional equipment to take care of

the large number of students in the laboratory.

How It Happened

First Soldier: "Sit down; you're rocking the boat."
George Washington: "Can't."
Seventh Soldier: "Why?"
G. Washington: "My pants are too tight."
So they painted him standing up.

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house heating in Raleigh were the best choice of coal, the proper methods of firing, and comparisons of different types of heating.

Investigations of very refractory North Carolina ores led to the invention of the double-current electric furnace, which has separate control of the heating and electrolytic functions. This furnace showed more economic results than other types when tested in the laboratory.

Investigation of the ceramic resources of the state has led to the establishment of large modern brick and tile plants. It cannot be questioned that the Engineering Experiment Station furnished the impetus for the new developments in this industry which is assuming such large proportions in the state.

The North Carolina road test truck was designed and constructed in cooperation with the State Highway Commission in order to make investigations and determine data for the economic determination of highway improvements. The test truck has been used to make accurate measurements of power and tractive resistance on North Carolina highways. It has also contributed to the theory of vehicle motion and to analysis of tractive resistance into components such as air resistance, tire resistance, road resistance, and grade resistance. The tire resistance analyzed from the road tests check closely with that of the same tires measured by another new device, a tire tester, which weighs the force required to pull the tire over the road.

The deterioration of cotton seed in storage has been investigated, as have also the processes for refining and solidifying vegetable oils. A process has been devised for removing the odor and taste from menhaden fish oil.

This year several series of projects on building stones and other building material have been started. The appearance of the stone and the maintaining of that appearance are main considerations affecting the choice of building stone. In this connection the devising of a highly accelerated weathering test is under way with considerable promise of success.

The Engineering Experiment Station has joined in the development of these natural resources and expects to aid the construction industry and to further the wider use, within the state, of North Carolina raw materials and products. Why should North Carolina not make use of the valuable building materials to be found in quantity and great variety within her own borders?

Investigation, now nearing completion, of power line poles from North Carolina forests have already shown economic value for the quick-growing pines for use by the electric power companies, and this should promote the production of such poles within the state.

The Museum of North Carolina Resources has been started. It is to be located in the new part of the engineering building now under construction, and as the exhibits are to be

selected individually for their worth and promise of adaptation, should be of interest and value to those concerned with the development of North Carolina resources and industry.

Engineering Experiment Station Bulletin No. 1, "County Roads," by Professor Harry Tucker, James Fontaine, and L. D. Bell, published in August, 1927, has attracted much attention and favorable comment. The first edition of it is exhausted.

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Three State Men Elected to Offices Of Beta Pi Kappa

Although only established three years ago, the North Carolina chapter of Beta Pi Kappa has made an enviable record for progressiveness both on and off the campus.

The membership is limited to students who are or have been registered in a department of Ceramic Engineering and who are interested in placing their profession and department on a high plane ethically and otherwise.

Beta Pi Kappa was founded at Ohio State University in 1902, and the North Carolina chapter is fortunate in having as an active member Professor A. F. Greaves-Walker, one of the charter members.

The high standing of the local chapter was evidenced at the last annual convocation by the election of three of its members to national office. Professor Greaves-Walker was at that time elected national presiding officer, D. B. Hall national secretary, and W. L. Stafford national historian.

The officers of the local chapter are D. B. Hall, P. E. Trevathan, "Mac" Greaves-Walker, Professor Greaves-Walker, and F. S. Hardee.

Economic Prof.: "What is capital and labor?"
Bright Pupil: "If I lend you ten dollars, that's capital. If I try to get it back, then that's labor."

Accomplishment Record of Experiment Engineers Great

(Continued from page 1)

tations, investigations, and research in engineering and industry as will aid the progress thereof and particularly to promote the economic utilization of the natural resources of the state. It also aids the spread of engineering thought and best practices and attempts to extend the boundaries of the field of engineering knowledge.

The investigations of the station have had a stimulating effect upon engineering instruction and extension.

Only brief statements in regard to some of the investigations can be given.

Valuable results were obtained in the investigation of joints used in furniture manufacturing.

The results of investigations of



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