

## Chemical Engineers Granted Charter By National Society With E. H. Harwood President

### First Student Chapter Installed In Southern States

### FIFTEEN CLUBS LISTED IN AMERICAN COLLEGES

### Membership Is Only Open To Men Who Are Taking Chemical Engineering — Urquiza, Thompson, Welch, and Lawrence Among Officers In Chapter — National Institute Is Forty Years Old — State Has National Officer.

State College Society of Chemical Engineers has been accepted as a student chapter of the American Institute of Chemical Engineers, and E. H. Harwood, of Winston-Salem, was elected president, and other officers are: M. A. Urquiza, of Mexico City, vice-president; J. E. Thompson, of Hamlet, secretary; J. D. Welch, of Hobbsville, treasurer; W. P. Lawrence, of Elon College, reporter.

The chapter is the first chapter established at any institution in the South and it is considered a distinguished honor to become a student chapter of the national organization. Membership is only open to those taking chemical engineering, and then they become eligible for membership in the A. I. Ch. E. after graduation in chemical engineering and must have worked in industrial field for at least seven years and have a responsible position in some organization.

In December, Dr. J. C. Olsen, vice-president of the A. I. Ch. E., visited State College and after inspection of the Chemical Engineering Department and the work of the society, recommended that a student chapter be granted to this college.

In recognition of the growing chemical industry in this section of the state.—Continued on page 5.

## MANY PROMINENT CITIZENS JUDGE ENGINEER EXHIBITS

### President of Engineers' Council Selects Judges for the Exhibitions

The judges of the several competitions held during the Engineers' Celebration have been appointed by W. W. Weltmer, president of the Engineers' Council.

The appointments are as follows: Judges of floats in "Parade of the Engineers": Sherwood, Bruckwell, chairman, State fire marshal, Dr. W. C. Pressley, president, Peace Institute; Albert W. Tucker, business manager, St. Mary's School.

Judges of departmental exhibits at Engineers' Fair: George R. Berryman, chairman, architect; James Peden, engineer, Raleigh Iron Works; G. J. —Continued on page 5.

## Ceramic Engineers' Department Rates Fourth In World Colleges

Registering its first students in 1924, only six years ago, the Department of Ceramic Engineering at State College has rapidly attained leadership among the 22 departments scattered throughout the United States and Canada. Only three departments, those at New York State (Alfred), Ohio State, and Illinois, now exceed the registration of 50 at this college.

This is a rather remarkable record when it is considered that N. C. State ranks ahead of such institutions as Rutgers, where a department was established in 1902; Iowa State, established in 1906; North Dakota, established in 1910; Washington, established in 1918; and Penn State, Satekatchewan, Georgia Tech, West Virginia, M. I. T., Michigan, Alabama, Missouri School of Mines, Oklahoma, Stanford, and others, which established ceramic engineering departments either shortly before or after 1924.

### NEW SOCIETY HEAD



E. H. HARWOOD

## CERAMIC ENGINEERING HAS BIG FIELD AS PROFESSION

### Course Is Relatively New Engineering Branch, Says Professor Greaves-Walker

Ceramic Engineering undoubtedly allows for a wider use of a man's natural ability and talent than any other branch of the engineering field. The ceramic engineer may select the role of an artist and produce pottery of the greatest artistic beauty, or take the other extreme and produce a drab, strictly utilitarian product like Portland cement or common brick. In between he has the vast field covered by abrasives which are so rapidly replacing machine tools; glass and glass products, which are becoming multitudinous; enameled iron and steel which have revolutionized the kitchen with beautifully colored stoves, refrigerators, sinks, and kitchen ware; sanitary ware which also, with its beautiful colors, has made the bathroom the most attractive room in the house; architectural terra cotta with which the skyscrapers are finished; electrical and chemical porcelain; pencil leads; spark plugs; enameled jewelry and artificial gems; hollow tile; sewer pipe; the various types and kinds of refractories for lining boilers, blast furnaces, electric furnaces, and copper, lead, gold, and silver furnaces; insulating materials used to conserve heat; plasters and plaster boards and a host of other products too numerous to mention. He may choose to be a designer and constructor specializing in any one or a number of these industries or he may go into research, be a plant operator, or executive, or a sales engineer. He may get out into the "wide-open spaces" as a miner of ceramic raw materials, such as feldspar, gypsum, phosphate, mica, limestone, kaolin, magnesite, chrome, glass sand, quartzite, fluor spar, etc.

Being trained as he is in a combination of arts and sciences.—Continued on page 6.

## "BRAWL" CHAPERONES

### The members of the faculty of the School of Engineering and their wives have been appointed by the Engineers' Council to act as chaperones at the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The two upper classes participate in the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The members of the faculty of the School of Engineering and their wives have been appointed by the Engineers' Council to act as chaperones at the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The members of the faculty of the School of Engineering and their wives have been appointed by the Engineers' Council to act as chaperones at the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

## ARCHITECT ENGINEERING REGISTERS 75 STUDENTS

The Department of Architectural Engineering is one of the youngest of the engineering divisions. It having been formed in 1923 as one of the three groups composing the Department of Civil Engineering. The first two classes to graduate were entirely formed by students transferring to architecture from the other departments. The class of three years ago was the first to complete the regular course through the freshman year.

There are now about 75 students registered in architecture, and the department has shown a rapid increase in number of students from its beginning. The proportionate increase in the future is expected to be more of a steady and permanent growth comparable to the expansion of the college as a whole.

## ENGINEER COUNCIL HONORS AMONG AWARDS AT STATE

### Twelve Men of Council Are Selected From Six Engineering Departments

Election to the Engineers' Council has become one of the most coveted honors on the State College campus in spite of the fact that representation on that body involves more hard work than does membership in any other student organization.

The 12 members of the council are chosen from the six departments of the School of Engineering, two being elected from each of the representative technical societies.

The council has done much during the five years of its existence to unify the students of the departments of the Engineering School and have through hard work established an annual engineers' celebration, that is each year becoming more spectacular, instructive, and enjoyable.

It was through this organization that a chapter of the Order of St. Patrick, senior engineering honorary, was established at State College. Working together the two organizations have raised the morale of the engineering students to a point where they are now annually taking a majority of the campus honors both in scholarship and activities.

The members of the 1930 council are as follows: W. W. Weltmer, president, E. E. 30, Asheville; "St. Pat. 1930"; A. I. E. 30; Golden Chain; Tau Beta Pi; Phi Kappa Phi; Blue Key, Sgt. at Arms; Theta Tau; Scabbard and Blade; Pine Burr; Monogram Club; captain, R. O. T. C. T. G. Smith, vice-president, M. E. 30, New Bern; president, A. S. M. E.; —Continued on page 2.

The members of the 1930 council are as follows: W. W. Weltmer, president, E. E. 30, Asheville; "St. Pat. 1930"; A. I. E. 30; Golden Chain; Tau Beta Pi; Phi Kappa Phi; Blue Key, Sgt. at Arms; Theta Tau; Scabbard and Blade; Pine Burr; Monogram Club; captain, R. O. T. C. T. G. Smith, vice-president, M. E. 30, New Bern; president, A. S. M. E.; —Continued on page 2.

The members of the 1930 council are as follows: W. W. Weltmer, president, E. E. 30, Asheville; "St. Pat. 1930"; A. I. E. 30; Golden Chain; Tau Beta Pi; Phi Kappa Phi; Blue Key, Sgt. at Arms; Theta Tau; Scabbard and Blade; Pine Burr; Monogram Club; captain, R. O. T. C. T. G. Smith, vice-president, M. E. 30, New Bern; president, A. S. M. E.; —Continued on page 2.

## WELTMER ELECTED SAINT PATRICK BY STATE COLLEGE ENGINEERS

### Order of Saint Patrick Installed Here During 1927

### Organization Is Peculiar In That It Has No National Officers, But Has Chapters In Leading Technical Schools Throughout the Country—Engineers Will Be Dubbed At "Grand Brawl" Thursday Night.

The Order of St. Patrick, senior honor society for engineers, a chapter of which was installed at North Carolina State College in 1927, was organized at the University of Missouri in 1903, and named after the patron saint of the engineers.

The organization is peculiar in that, while it has dozens of chapters scattered through the technical schools of the country, it has no national officers or national headquarters. Each chapter acts independently, and any technical school may establish a chapter without permission from the others. Seniors only are admitted to knighthood in the order, but each year the 12 outstanding freshmen engineers are initiated as companions.

The objects of the order are: (a) To promote a higher standard of scholarship among engineering students; (b) To promote greater interest in student activities, and especially those of the School of Engineering; (c) To promote closer relations between students and graduates of the School of Engineering.

In order to be eligible for knighthood, a senior must have fulfilled all requirements for graduation at the commencement following his election; must be an active member in good standing of a technical society; and must have conducted himself during his residence in college so as to have been a credit to himself, his department, and the School of Engineering.

The election of candidates at State College takes place just before St. Patrick's Day each year, the names of the eligibles being voted upon by the Engineers' Council. Initiation takes place at the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The two upper classes participate in the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The two upper classes participate in the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The two upper classes participate in the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

The two upper classes participate in the "Grand Brawl" in the Physical Building, indicating the real interest that the students take in their work.

## MANY HONORS ARE HELD BY STATE'S ENGINEERS

### Extra-Curricular Activities Increase In Life of College Engineers

During the past few years the students in the School of Engineering have been taking an increasing interest in extra-curricular activities. This is evidenced by the relatively large proportion holding high office in the leading campus organizations.

Dating as it does from the organization of the Engineers Council four years ago, much credit for this increased interest must be given to this organization which has succeeded so well in its efforts to bring about unity of the students of the various departments and to develop an "esprit de corps" which was sadly lacking in days gone by.

Among the prominent engineers on the campus who rank high in the State College "Who's Who" are the following:

- Wilton W. Weltmer, E. E. 30—Asheville; president, Engineers' Council; "St. Pat. 1930"; Tau Beta Pi; Phi Kappa Phi; Pine Burr; Golden Chain; Blue Key; varsity track; Monogram Club; captain, R. O. T. C.; Scabbard and Blade; Theta Tau.
- Thomas C. Smith, M. E. 30—New Bern; president, Golden Chain; Blue Key; Theta Tau.
- Charles H. Belvin, Jr., 30—Raleigh; president, Blue Key; colonel, R. O. T. C.; president, N. C. State Boosters Club; Tau Beta Pi; Scabbard and Blade; Pine Burr; Golden Chain; Phi Kappa Phi.
- Edgar H. Harwood, Chem. E. 30—Winston-Salem; secretary, Tau Beta Pi; Pine Burr; Blue Key.
- Gaston G. Fornes, M. E. 30—Arapahoe; —Continued on page 2.

## Illuminated Floats Feature 1930 Parade of Engineers To Be Held Thursday Night

### ST. PATRICK, 1930



W. W. WELTMER

## CANDIDATES FOR OFFICES TO BE VOTED ON THURSDAY

### Student Council and Technician Enter Men In Primary Election

Student primary elections will be held in the north end of the Y. M. C. A. Thursday, March 27, from 8 a. m. to 6 p. m. The Australian ballot system will be used as inaugurated last year.

The candidates for offices in the Student Council and the Technician will be voted on at this time. All candidates for offices in the Y. M. C. A., The Agromeck, and The Varsity will be voted on in the final election.

The men whose names will appear on the ballot for president are: L. R. Mercer, Johnny Gammon, W. H. Ferguson, D. M. Paul, F. B. Thomas and all independent candidates. Any member of the present Junior Class is eligible to run as an independent candidate, provided he presents his qualifications to the Student Council by Monday night. Each student is to vote for only one candidate for president of the Student Council in the primary election. The two men receiving the highest number of votes are to be voted on in the final election.

At the same time the members of the council as nominated by the present sophomore class will be voted on for the offices of secretary and treasurer. These men will be J. E. Gill, F. W. Gorham, C. E. Brake, C. V. Morgan, E. M. Freas.

The two candidates in this group receiving the highest number of votes will enter the final election.

"Stamp" speeches will be made by all candidates in Pullen Hall Tuesday night beginning at 8:30.

The publication nominations are: TECHNICAL EDITOR: R. H. Park, R. M. Lightfoot, Dick Yates, A. Business Manager: M. A. Abernethy, W. B. Callahan, A. E. Lund.

Students at North Carolina State College favor modification of the Eighteenth Amendment, according to a consensus of opinion obtained from the results of the straw vote poll conducted by THE TECHNICIAN this week.

With the increasing widespread interest and agitation of the prohibition question and the discussion in Congress of college drinking, THE TECHNICIAN decided to take a student vote to find out just how the students of State College stand on the matter, assuming that the campus opinion at N. C. State would be representative of the prevailing opinion in the colleges and universities of America. The movement was a success, as response was received from many students.

The questions on the prohibition ballot were as follows: (1) Do you favor a repeal of the Eighteenth Amendment? 299 yes; (2) Do you favor modification of the Volstead Act to permit the sale of light wines and beer? 417 yes; and (3) Do you favor the continuance and enforcement of the Eighteenth Amendment and the Volstead Act? 52 yes. From the above results those students favoring modification of the Eighteenth Amendment far surpass either of the other groups in number.

## Thousand Red Signal Flares Light Path of Saint Pat

### MANY NOTABLES REVIEW ANNUAL ENGINEER MARCH

### Governor O. Max Gardner, Mayor E. E. Culbreth, Dr. W. C. Riddick, and President Eugene Clyde Brooks To Witness Spectacle — Immense Snake Introduced In Parade for First Time By 1930 Engineers.

The "Parade of the Engineers" which is scheduled for the evening of March 27 gives promise of being the best thing of its kind ever put on by State College students. As was the case last year, it will be illuminated with red and green fire, 1,000 railroad signal flares having been obtained by the parade committee, which is headed by H. W. Horney.

Illuminated floats, even more elaborate than last year, when a record was set, have been prepared by the various departments of the Engineering School and the professional engineering fraternities, Tau Beta Pi, Theta Tau, and Beta Pi Kappa. The Beta Pi Kappa (Ceramic Engineering) float is a new addition this year, as is also the float of the Aeronautical Division of the Department of Mechanical Engineering.

Each year in the past the Engineers Council has sprung something new in the parade program. Not to be outdone, this year's council has had contracted under the supervision of G. E. Sullivan, an immense snake, hundreds of feet long, which will from now on become the "mascot" of the engineers. This huge "viper," so reminiscent of St. Patrick's entrance into the engineering profession, together with floats and brilliant illumination, —Continued on page 2.

## EMBLEM KEY IS ADOPTED BY ENGINEERS' COUNCIL

### Design of George E. Sullivan Is Selected By 1930 Society Members

The Engineers Council of 1930 has decided to adopt an emblem key to designate membership in the organization.

A design submitted by George E. Sullivan, A. E. 30, has been accepted by the council. It consists of an "N. C. S." monogram of bright gold on the face of the "S" in blue enamel. This design conforms to that adopted by practically all other engineers' councils in the country.

Each succeeding council will merely have the year changed and all members of preceding councils may order keys showing the year of service.

## 417 State College Students Vote For Light Wines and Beer

Students at North Carolina State College favor modification of the Eighteenth Amendment, according to a consensus of opinion obtained from the results of the straw vote poll conducted by THE TECHNICIAN this week.

With the increasing widespread interest and agitation of the prohibition question and the discussion in Congress of college drinking, THE TECHNICIAN decided to take a student vote to find out just how the students of State College stand on the matter, assuming that the campus opinion at N. C. State would be representative of the prevailing opinion in the colleges and universities of America. The movement was a success, as response was received from many students.

The questions on the prohibition ballot were as follows: (1) Do you favor a repeal of the Eighteenth Amendment? 299 yes; (2) Do you favor modification of the Volstead Act to permit the sale of light wines and beer? 417 yes; and (3) Do you favor the continuance and enforcement of the Eighteenth Amendment and the Volstead Act? 52 yes. From the above results those students favoring modification of the Eighteenth Amendment far surpass either of the other groups in number.

**Construction Engineering**

Construction Engineering has been enjoying a steady growth in popularity among engineering students. It is not a new field for the engineer, but it is one that until recently was neglected. The total enrollment in all four classes now reaches the grand total of fifty as compared with twelve students three years ago.

It is easy to understand why such a course would be popular, for from the earliest days man has been a builder. Ages ago hillside caves gave place to crude dwellings fashioned of wood, stone, or sun-baked clay. During the thousands of years that have passed since then every century has added something to the art of building. As the developments of modern science have been applied to construction the work has become more technical, until now the master builder is no longer governed by rule of thumb; he must know what constitutes good practice in all important matters of construction as well as in the field of structural design. The management of building op-

erations, assembling materials and directing work of the various trades, calls for the ability of able leaders. This has resulted in a gradually increasing demand for trained men to act as engineers and executives in the work of construction.

There is a field in construction engineering that has hardly been touched. Home building costs have doubled since 1913, while all commodity costs have increased only about 50 per cent. In the same period the cost of manufacturing automobiles has been reduced 22 per cent. Because of rising building costs the average man must squeeze his family into half the space formerly required. He must live in a poorer house or he must increase the rent item in his budget at the expense of other needs. Budget makers tell him that ordinarily he should pay no more than 25 per cent of his income for rent if he wishes to keep out of financial difficulties. The average American makes only \$25 a week, and 25 per cent of that income will not go far in securing a suitable rent, especially in the cities.

In 1927, for the first time in the history of the United States, more new family accommodations were provided in apartment houses than in new single-family dwellings. The trend towards apartments is steadily increasing. Rising prices crowd the family into smaller and smaller quarters, surely not because they prefer apartments, but because they are forced there.

Many influences conspire to tie house building to traditional and wasteful methods. Home building presents a research problem of immense possibilities for the student in Construction Engineering.

Get a new style wrist watch at Gholson's. You can use your old watch as a part-payment.

**A. W. GHOLSON**  
Jeweler  
129 SOUTH SALISBURY ST.  
Railroad Watch Inspector

**SHEAFFER PENS**

**SANDWICHES**

For the BEST in Eats, Smokes, Drinks  
Fountain Pens, Magazines  
Toilet Articles and Stationery

PIPES—One for each individual

**LITTLE DOC MORRIS**  
COLLEGE RENDEZVOUS

Open 7-12

Phones 4784-9197

STATIONERY—COLLEGE SEALS

**THE ENGINEER**

HIRAM PERCY MAXIM

You are an engineer only if you can be absolutely truthful with yourself. You deal in facts. Facts are truths. The truth—the unvarnished truth—is what you build upon. And you build the greatest of men's works.

The truth is the only thing in this world that is 100 per cent dependable. Therefore is the engineer confident if he has been truthful with himself.

Truth is merciless. It plays no favorites. It is not swayed by oratory, appearances, or sentiment. And thus it takes courage to face it. The engineer must have courage, for he must face truth without flinching. And so to be an engineer one must be courageous, confident, brave, and fearless.

The truth is not always easy to find. When it cannot be found, judgment must be called in. The engineer's judgment must be unbiased, unprejudiced, unshamed of its ignorance, and unswerving in its faith in the logical, the reasonable, and the orderly.

The guess, the hunch, and the gamble have no place in engineering.

All men may not be engineers.

**Engineer Council Among Honors Awarded At State**

(Continued from page 1)

president, Golden Chain; regent, Theta Tau; Blue Key.

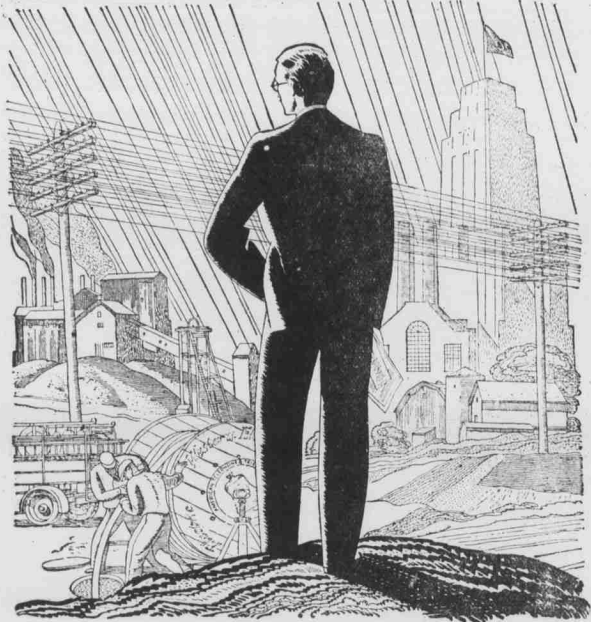
J. A. Broadwell, secretary, C.E. '29, Selma; A. S. C. E.; Y. M. C. A.; manager, Wrestling; Pullen-Literary Society.

Everett G. Couch, Jr., treasurer, Cer. E. '31, Darlington, S. C.; secretary, Blue Key; A. C. S.; Beta Pi Kappa; Agromech staff; "Junior Prom" Committee; Winner, Moland-Drysdale Scholarship Cup.

Edgar H. Harwood, Chem. E. '30, Winston-Salem; president, A. I. Ch. E.; secretary, Tau Beta Pi; Gamma Sigma Epsilon; Blue Key.

Joseph R. Parsons, Cer. E. '29, Hendersonville; president, A. C. S.; Beta Pi Kappa.

H. W. Horney, E.E. '30, High Point; chairman, "Parade of the Engineers"; president, A. I. E. E.; Tau Beta Pi;



**A challenge to the imagination**

To provide telephone service of national scope, to manage and develop properties valued at more than three and three-quarter billion dollars, to maintain an organization of more than 400,000 people at highest efficiency — such work spurs the creative thought of men of the highest calibre.

Within the Bell System many have achieved outstanding success. Their work

is not only in pure science and engineering, but in organization and management, in salesmanship, financial administration, economics and the many other fields vital to the growth of so great an enterprise.

Because of these men the Bell System is able to furnish the best all-around telephone service in the world. A progressive policy puts at their disposal every aid that a great organization can give.

**BELL SYSTEM**

A nation-wide system of inter-connecting telephones



**"OUR PIONEERING WORK HAS JUST BEGUN"**

Phi Kappa Phi; Pine Burr; Mu Beta Psi.

J. W. Halstead, Jr., M.E. '31, Norfolk, Va.; A. S. M. E.; Pan-Hellenic Council; Y. M. C. A. cabinet; Gorman Club; Cottillon Club; White Spades.

J. N. Johnson, Jr., C.E. '31, Raleigh; A. S. C. E.; Construction Engineering Society; Theta Tau; Monogram Club; captain, cross country.

G. Elias Sullivan, Arch. E. '30, Raleigh; president, Beaux-Arts Society.

D. C. Albee, Arch. E. '31, Hickory; Beaux-Arts Society.

M. A. Urquiza, Chem. E. '31, Mexico; vice-president, A. I. Ch. E.; Chemistry Club.

**Many Honors Are Held By State's Engineers**

(Continued from page 1)

ho; preside t. Pine Burr; Tau Beta Pi; Phi Kappa Phi.

William F. Ottinger, Const. E. '30—Asheville; captain, varsity track; Blue Key; Tau Beta Pi; Pine Burr.

William T. Garibaldi, Arch. E. '30—Charlotte; lieutenant-colonel, R. O. T. C.; Blue Key; Golden Chain; Scabbard and Blade; Theta Tau.

William E. Koonz, Chem. E. '30—Chatham; president, Senior Class; president, Tau Beta Pi; Phi Kappa Phi; Pine Burr; Scabbard and Blade; Golden Chain; Blue Key.

Mack Stout, Const. E. '31—Sanford; captain, football.

Milton R. Vipond, Chem. E. '31—Norfolk, Va.; president, Junior Class; Blue Key; Tau Beta Pi; Pine Burr.

James M. Johnson, Const. E. '31—Raleigh; captain, cross country team; Theta Tau.

Leslie C. Vipond, E.E. '31—Norfolk, Va.; editor, Watagan; Tau Beta Pi; Pine Burr; Blue Key.

Arthur H. Rogers, Cer. E. '33—Raleigh; president, Freshman Class.

A recapitulation of this list of leaders shows it to contain the presidents of three of the four classes; the two ranking officers of the R. O. T. C.; the president of the Senior Honor Society; the president of two of the three scholarship societies in which students can be elected to the presidency; the president of the leadership fraternity; the captains of three of the five leading sports and the editor of one of the two campus publications.

This record is the more remarkable when the heavy study load which the engineers are required to carry is taken into consideration. If leadership in colleges gives any indication of a student's executive ability, many State College engineers should become out-

standing leaders in the engineering field after graduation.

**Illuminated Floats Feature 1930 Parade of Engineers To Be Held Thursday Night**

(Continued from page 1)

will give Raleigh its first real taste of the Mardi Gras.

The line of march this year will be the same as in the past years. The head of the line will form at Cabarrus and Fayetteville streets and at 8:15 p. m. sharp will move up Fayetteville to the Capitol, headed by Gov. O. Max Gardner, Mayor E. E. Culbreath, Dr. E. C. Brooks, and Dr. W. C. Riddick. The column will circle Capitol Square and disband at the corner of Hillsboro street.

The parade will be reviewed at the head of Fayetteville street by the Governor and his party and the Committee of Judges on Floats, who will award the Faculty Cup to the most representative and attractive float.

The order of formation will be Governor's car; cars containing the engineering faculty; "chariot" of 'St. Pat, 1930" (W. W. Welmer) and the

"Princess Pat" (Miss Virginia Rogers); State College Band under "Daddy" Price; cars containing the Engineers' Council; State College Drum and Bugle Corps; floats and engineering students.

Lieut. C. H. Elmes has been appointed grand marshal and will have as his aide Lieut. H. H. Hutchinson, of the Department of Ceramic Engineering.

Lieutenant Elmes' appointment gives assurance that the parade will start promptly and be run off without a hitch.

**FOR A FRAGRANT INTERLUDE— HAVE A**



Let Camels help to make your day by breaking

it with pleasant interludes with little

pauses given over to cool fragrance and

rich aroma Call a halt now and then

and accent the intervals between one thing and

another There's always extra enjoyment in

a day whose turns and twists are

punctuated with Camels.



You'll find Camels always give you a little more pleasure... because the choicest tobaccos grown are blended with expert care. Camels are mellow and mild, cool and refreshing... their fragrance is always pleasant, indoors and out... they never tire your taste nor leave any after-taste.

**Start the New Term Right--**

With Good Equipment

**LOOSE-LEAF NOTEBOOKS**

— SPECIALS —

**50c to \$1.50**

**FOUNTAIN PENS**

The largest assortment of Fountain Pens for Men in Raleigh

SHEAFFER, PARKER, CONKLIN WATERMAN and SWAN

**\$1.75 to \$10.00**

Slide Rules and Drawing Supplies

**Students Supply Store**

"On the Campus"

# Warren Added To Coaching Staff; Drennan Quits

## FORMER STATE MAN TO TAKE UP DUTIES HERE NEXT SEASON

### Tebell's Resignation Accepted By Trustees Last Saturday

#### COMMITTEE APPOINTED TO SELECT SUCCESSOR

#### Drennan's Leaving Will Put a Crimp In State College's Wrestling Squad

Following the recent meeting of the Board of Trustees of the Athletic Council of State College, much of the turmoil prevailing in the athletic department has been erased as Tebell's resignation was accepted, a sub-committee appointed to recommend a successor, the addition of Robert Warren to the coaching staff here, and the resignation of "Buck" Drennan.

"The sub-committee has received several applications to date for head coach at State, but no definite action will be taken until the committee has had plenty of time to function and consider all things," Doc Ray Sernon, member of the committee, told THE TECHNICIAN yesterday.

Tebell, who will conclude his sixth year at State this season, has accepted the position of head basketball coach and assistant grid mentor at the University of Virginia.

Warren will succeed Coach "Buck" Drennan and start his duties the beginning of next school year. Coach Drennan's resignation was presented to the trustees at the meeting last Saturday by Dr. E. C. Brooks, and was accepted.

Warren's duties have not been definitely stated, but will probably consist



Bob Warren

Who will enter N. C. State College once more in the role of freshman football and basketball coach. Warren was varsity cage mentor at V. P. I. this past year.

In coach of freshman football and basketball, and take over some of the duties as trainer, now being fulfilled by athletic director, Dr. Ray Sernon. It is understood that Warren has already given notice to V. P. I. that he would not stand for reelection to their staff.

Dr. Robert "Bob" Warren hails from Independence, Mo., home of Doc Sernon, and entered State in 1926, after graduating from the American School of Osteopathy at Kirksville, Mo. At this school, Warren starred in three major sports. "Bob" came east after graduation and enrolled here, also performing in a like number of athletic activities. Warren is credited with three years of football, baseball, and basketball at State, being captain of the Wolfpack eleven in 1928, and that captured Southern honors in Atlanta.

"Buck" Drennan will conclude his services here at the close of the ensuing year, marking his fourth season in Raleigh as coach. He has been freshman football and track mentor and varsity wrestling coach. With the resignation of Drennan, State will be without the aid of a grappling instructor, and next year's prospects mark one of the best in the history of the school, it is said.

The rumor that John Lepo would be added next year still remains in a hazy condition, but is expected to materialize shortly, with the present State student aiding Warren in football and coach of boxing, newly organized sport here by the military department. It was stated that the historic art would be rated as a minor sport next season, with Lepo in full charge.



JUDGING from the sound one gets in passing Riddick Field these days, Spring is here. The crack of the bat, the pop of the sand against, and the hustling of a group of ball players lets us know also that baseball has arrived.

THE first tilt of the season is slated with the Wildcats of Davidson a week from tomorrow here in our own backyard. The squad is quickly rounding into a swell bunch of ball players, according to Manager Frank Clark, and full strength will be hurled against the Cats.

FRESHMAN ball is now underway and the prospects for the first-year men look none to the bad. They play a schedule of some 10 or 12 games this year and several outside tilts have been looked.

WITH the call of Spring, many of the students will be seen on the tennis courts. These are in a very bad condition, and have to be worked on by the students before regular matches can be staged. Only two courts are available for use at the college, and they ought to be maintained by the school for the pleasure of the students, it seems.

GOLF is now finding its place among the students. It is not odd to find some aspirant of the pastime hitting vainly away at the oval on the field behind the Chemistry Building.

THE State golf team has participated in a dual meet with Charlotte High School already and more are to be expected in the future. Such matches are to be booked with Duke, Carolina, Georgia Tech, and Davidson, but as yet no definite time has been settled.

TRACK is another popular sport here and a successful season on the path is expected. Various men have been doing duty to the cause for the past month, and when the roll is called for the first meet next month, State should be well represented with an aggregation of hustlers.

THE official call for both varsity and freshmen was sounded this week, and Coaches Sernon and Drennan find interesting material on hand.



"BUCK" DRENNAN

Who resigned as freshman instructor in football, track, and varsity wrestling last Saturday at the meeting of the Board of Trustees of the Athletic Committee.

## BASEBALL OPENS WITH DAVIDSON HERE NEXT WEEK

### Freshman Squad Commences Practice This Week; Prospects Are Bright

Baseball will make her initial appearance here a week from tomorrow as the Duck nine clash with the Cats from Davidson in one of the first games booked in the state.

Old Man Weather threw quite a crimp into practice this past week, but by today Coach Clark expects to have rounded out his starting machine. Several rookies have been pushing old regulars for berths, and it might be anticipated that the infield will be composed practically of newcomers.

Captain Sandy Shore leads the fitness and is expected to start on the mound against Davidson. As for the remaining line-up nothing definite has been released.

Candidates for freshman ball reported during the week with the first-year men looking rather interesting.

## State College Alumni Express Desire For New Stadium Here

Alumni of N. C. State College are beginning to talk about a stadium on the West Raleigh campus. No definite plans have been formulated as to ways and means, but Tech alumni sentiment seems to be crystallizing and the question of a new athletic plant will be discussed at the next meeting of the General Alumni Association, in June.

The forthcoming number of N. C. State Alumni News, official alumni organ, will carry an article on the stadium question by T. H. Stafford, former alumni secretary, and graduate manager of athletics.

Mr. Stafford says, in part: "Those of you who have attended games at Riddick Field in the last few years must realize that our athletic plant is no longer adapted to our needs. With comparatively small crowds attending the games, this season it has been impossible to adequately care for our alumni and friends. Our student body and faculty now number close to 2,500, and when this large group is seated there are no choice seats left for alumni, or the general public."

"It is understood that the wooden stands on the east side of the field, back of the Y.M.C.A., must be scrapped by another season. They will be unsafe. To replace this section will entail an expenditure of around \$50,000, and even with new stands in this area our seating accommodations will not be increased.

"This is the day of big football stadia. Six of the ten institutions in the Western Conference have built new athletic plants within the last ten years. There isn't a college or university in the Southern Conference which is not better prepared to handle football crowds than State College. Coming closer to home, Carolina and Duke have recently opened beautiful new stadia, which will serve their needs for generations to come.

"Experience has shown that the crowd likes to go where there is comfort, and the positive assurance that a high-priced postboard will entitle the holder to a first-class seat from which every detail of the game may be observed.

"We cannot provide these things in the narrow confines of Riddick Field, and there is no question but that the several of the yearlings have been working out with the varsity squad and prospects for the ensuing season from brightly.

## Tennis Team To Hold Elimination Here Soon

Within the next few days there will be a tennis tournament to eliminate all but ten or twelve best tennis players of the school, according to Professor Hugh T. Ledor, faculty tennis star and coach of last year.

The tournament will be open to students only. The tennis club has expressed its intention of petitioning the Athletic Council for money to buy the winners of the tournament a membership at the Country Club, as was done for the golf team.

W. F. Brannon is head of the tennis club, and it was announced that they are still taking in new men. The first meet will be with Wake Forest College here in the near future.

## Huneycutt Opens Miniature Golf Links

The latest addition to recreational institutions in the college vicinity is an 18-hole miniature golf course being constructed by W. O. Huneycutt, of Huneycutt's London Shop, Hillsboro street, beside the Wilmore Apartments.

According to Mr. Huneycutt, the new course will be open for use next week and will be open on all days, including Sundays. It will be large. It has the average miniature course. The charge will be 25 cents; balls and clubs furnished. The course is to be equipped with electric lights to make possible night playing.



## Pipes save no midnight oil

IF PIPES made the man, anybody at all could rise in the world just by smoking a few pounds of Edgeworth. But pipes don't make the man. Men make the pipe—most men do. Somewhat depends on the individual, more on the pipe, and the tobacco is most important of all. Things must be congenial.

Edgeworth is a congenial tobacco, cool, slow-burning, fully flavored. Edgeworth has poise, kindly good nature, real tobacco personality—Edgeworth welcomes new friends. Many a good man has been pledged to pipes by Edgeworth alone.

Like to meet Edgeworth? Just ask with the coupon—and the postman will bring your first few pipefuls of the genuine, three years seasoned if it's a day. Our treat, if you please.

Others have found Edgeworth and quit their discontent.

So may it be with you!

## EDGEWORTH

Edgeworth is a careful blend of good tobacco—selected especially for pipe-smoking. Its quality and flavor never change. Buy it anywhere— "Ready Rubbed" or "Plug Slice"—15¢ pocket package to pound humidifier tin.

Larus & Bro. Co., Richmond, Va.  
I'll try your Edgeworth. And I'll try it in a good pipe.

(Witness my seal)

(and my seat of learning)

(and my postoffice and state)

Now let the Edgeworth come!

## Sanitary Engineering

The importance of sanitary engineering as it affects the health and life of the people needs no emphasis. The progress of the State of North Carolina in matters affecting health is known the country over. There is need for many more men trained in sanitary engineering, and to meet this need the curriculum in sanitary engineering is offered. In the main, it is the curriculum in general civil engineering with substitutions of courses in sanitary engineering. The courses substituted are: Treatment of Water and Sewage for Geology; Water Purification for Astronomy; and Sewage Disposal for Railroad Engineering. This curriculum will be developed gradually to meet the needs in the State.

As there is a large demand in this State for men familiar with the design and operation of water and sewage plants, special attention will be given to the actual design and practical operation of water purification and sewage disposal plants.

The Sanitary Engineering laboratory equipment is similar to that used in water and sewage plant laboratories and the student makes the same tests, using standard methods, as are made in water and sewage plant laboratories.

The city of Raleigh water purification plant and the college gymnasium swimming pool filter plant are available for practical demonstration and instruction. Through the cooperation of the Bureau of Sanitary Engineering, State Board of Health, located in Raleigh, the student has a chance to study all phases of its work, not only in sanitary engineering, but also in the broad field of public health.

Upon graduation, students are prepared to accept positions as: water and sewer plant operators, assistant resident engineers, junior engineers with State boards of health, and with the United States Public Health Service. After a few years of experience graduates can be expected to advance to positions as superintendent of water works, city engineers, and city managers, consulting engineers, State sanitary engineers, and senior engineers with the United States Public Health Service.

Engraved by JOHN MELDOR

"CALL OFF YOUR DOGS!" CRIED YVONNE WADDINGHAM-WADDINGHAM

For Yvonne's feeble strength was spent after an hour's flight across the ice-pack.

"Them ain't dogs, woman!" laughed the sheriff. "Them's your boy friends. They bark like bloodhounds because they don't smoke OLD GOLD. The honey-smooth cigarette made from queen-leaf tobacco . . . . better have 'em change to it and save yourself a lot of unnecessary alarm, my gal."

**OLD GOLD**

FASTEST GROWING CIGARETTE IN HISTORY. . . NOT A COUGH IN A CARLOAD

On your Radio . . . OLD GOLD—PAUL WHITEMAN HOUR, Paul Whiteman and complete orchestra . . . every Tuesday, 9 to 10 P. M., Eastern Standard Time

© P. Lorillard Co.

The Technician



Published Weekly by Students of North Carolina State College

Technician Office Phone 4744

STAFF

A. L. WEAVER Editor F. W. FLORE Business Manager

Managing Editor: LOUIS H. WILSON

Associate Editors: ROY H. PARK H. B. MERRIAM

Staff Officers:

J. E. KING, DICK YATES, A. D. THOMAS, C. B. CRAMPTON, J. H. WHITE, L. W. WATKINS, T. S. FERRIS, JR., R. M. LIGHTFOOT

Reporters:

W. C. HUBARD, R. R. COVINGTON, A. G. BULLARD, W. F. BOWLES, F. HARVEY WHITLEY, E. M. OVERTON, J. A. CREECH, H. F. ANDERSON, W. E. TOLLOCK

Business Staff:

M. A. ABERNETHY, W. B. CALLAHAN, ALFRED LAND

Entered as second-class matter, February 10, 1920, at the postoffice at Raleigh, North Carolina, under the Act of March 3, 1879.

SUBSCRIPTION PRICE: \$1.50 PER COLLEGE YEAR

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.

Member of NORTH CAROLINA COLLEGIATE PRESS ASSOCIATION

Green ink? The traditional green ink covers these pages. To mark the passing of another birthday of old St. Pat.

Two special editions in succession have ruined the staff, but next week by heroic efforts a reorganization will be attempted and the paper will carry some up-to-date campus news.

It's been quite a while since St. Patrick drove the worms out of Old Erin, and in that time the progress of engineering has progressed from practically nothing to an almost mechanical age. State College each year turns out men that will soon carry this progress further.

The results of THE TECHNICIAN prohibition poll proved that the students at State College desire a modification of the Eighteenth Amendment. Wonder what they want to drink? This is the first collegiate poll taken in the South and is run in connection with the Literary Digest poll.

ST. PAT EDITION

To have something to look forward to and to have some climax to a grand and glorious finish is or should be the ambition of every person or institution. State College reviews in pride this annual climax of the School of Engineering. The engineers themselves reserve their energy and final spirit to make the Engineering Fair and the Engineers brawl the biggest event of the year.

This fair, to be presented next week, is the fourth such event that has taken place at this institution. Each year something bigger and better is presented and the plans for this year tend to show that the trend will not be on the decline. It is a means of getting the interests of the entire engineering school to work in cooperation. Each branch works with the other to the advantage of all. As is the case of the Agriculture Fair and the Textile show, the people of North Carolina are given a chance to glimpse the inside workings of our college. They are able to see what we are planning, what we are capable of doing, and what we are going to do. The parade through Raleigh is looked forward to by the citizens and as each year some new and fantastic design makes it appearance the element of wonder grows. The departments at the college are also thrown open for inspection and each year

many visitors are shown the working of engineering.

The brawl coming as the final part of the week of celebration is one of the most enjoyed parts of the program, and to use an old expression, it is the time when "a good time is had by all."

We wish the engineers a success and hope that in time all the schools will put on a similar program.

SCHOLARSHIP AND ACHIEVEMENT

That a student's college record is a forecast to his success has long been felt by many of the greatest educators of our country. Other educators, just as great, have maintained that a student who makes average grades and participates in extra-curricular activities will succeed in a much greater proportion than the collegiate marvel who spends his entire time in preparing for his studies. The latter gentlemen point to the "collegiate geniuses" who fail to secure a good position after graduation. Those educators of the former class point with pride to the great men of today and say that while in college their records were examples of high scholarship.

We have no intention of attempting to settle this dispute which is dividing the venerable gentlemen of this age. Our intentions, although not quite so noble, do have the advantage of being practicable. We merely wish to enter the dark horse, statistics, in the race.

In an article written by Col. R. I. Rees we find the following information which promises to throw light on the subject:

The records of 3,806 college men were studied. On the whole, the evidence is very striking that there is a direct relation between high marks in college and salary progress afterward. An illustration, take the median salary of 498 men who stood in the first tenth of their class. At ten years after graduation, the median salary of this group was something over 10 per cent more than the median salary of the entire group; at 20 years after, it was about 30 per cent more than the median salary of the entire group; and at 30 years after, it was 55 per cent more than the median.

As we have stated before, we have no intention of attempting to settle this question. We merely pass the evidence on to you for any thought or consideration that you may care to give it.

CRIMINAL COLLEGE MEN

The several students who were "shipped" from State College for being involved in a hair-cutting escapade have been indicted by the Wake County grand jury and warrants issued for their arrest.

We hold no brief for anybody who breaks the law, but we feel that these young men and their families were sufficiently punished and disgraced by their being dishonorably dismissed from the institution and the fact broadcasted throughout North Carolina and neighboring states.

Who brought this matter to the attention of the grand jury? An attorney employed by one of the young men involved has been attempting to discover the answer to this question, but results are in vain to date. Are those responsible ashamed of the fact? We hope so.

Speaking frankly, we feel that the college authorities are somewhat to blame for a condition that exists at the institution which nurtures the little outbreaks of ebullient spirits on the part of the students.

Compared to most other institutions, especially those located in the fair-sized towns, the students at State College are a bunch of Sunday School students. A better behaved student body would be difficult to find. Cast an eye at Massachusetts

Tech, an institution held up as a model for all other technical schools, where the students wrecked the gymnasium, took charge of the subway and did \$25,000 worth of damage in a downtown building. And the University of Michigan, where students wrecked a movie house, assaulted the police, and were only subdued with firearms and tear gas. Again, Albion College, where students damaged a theatre and absolutely tore down the town jail to rescue some of their fellows. Then there was the Iowa College where the students attacked the president and faculty members, and our neighboring Clemson with its food strikes and riots. Scarcely a week goes by without some story of the kind from some college in the country.

Compare this with a hair-cutting bee confined to the campus at which the principals were a fresh sophomore and fresher freshmen—and remember students who are not fresher than they should be, and who behave themselves, don't get free haircuts—they have to buy them.

And here is where the authorities come in. Some means should be provided for nearly 2,000 young animals to work off their "pep," and some legitimate means should be provided for "suppressing" students who do not know how to behave themselves. Even the U. S. Military and Naval Academies provide for the latter, and yet the good people of the country who supply the money don't object.

This is probably one of the only colleges in the country where no provision is made for settling class rivalry. No cane rush, no flag rush, no class fights, no tug-of-war, no class football, baseball, or track. Nothing!

Only last year Golden Chain furthered a proposal for an annual tug-of-war between the freshmen and sophomore classes, the first to be held last fall. Was it held? No; and why? Because the college authorities would not purchase 100 feet of suitable rope, and said so in no uncertain terms.

College spirit! Class spirit! Everything that has tended to breed those things so much needed at State College has been stamped out during the past few years and nothing has been provided to take the place of the practices frowned upon by the authorities. "Let sleeping dogs lie" may be a good old adage, but the unfortunate incidents of the past few weeks seem to indicate that it would also be a good thing to provide them with a little healthy, directed exercise occasionally.



While in Raleigh on his nation-wide political tour, presidential candidate Alfred Emanuel Smith had his picture taken wearing Milton Abernethy's "rat" cap. Then, according to a recent TECHNICIAN, CAMPUS "AL" sent his cap to a pressing club, where it was thoroughly cleaned. Wonder who administered mange remedy to Ex-Governor "Al"?

Most students who attempted to "ride" through exams found the path better suited for walking.

Someone has suggested that State College, like Duke University, hold a beauty contest to determine the most comely coed. Why not make it a homely contest so that more candidates could be entered? It's a trifle saying, but "you can't make a silk purse out of a sow's ears." Neither can you hold a peacock pageant with ugly ducklings.

It is rumored that one student will be expelled and two expectant students barred from State College as the result of a brawl in an alleged East Raleigh brothel. We hope that we have none so sanctimonious as to slam the door opening to education in the faces of these three young men. Understand, we are not attempting to vindicate the three carousers—they did wrong. But we do hope that the judges who sit on the case will bear

in mind the admonition Christ gave the would-be stoners of the woman caught in the act. He said, "If there be one among ye without sin, let him cast the first stone." Incidentally no stones were thrown.

Student Forum

HEADMAN SAYS:—

I wish to congratulate the students and faculty of the School of Engineering because of the contribution to the State in the development of the standing character of the standing resources, and because of the standing character of the students who pass from college to worthwhile service, and the fine spirit that prevails in this institution.

The rapid and substantial progress the School of Engineering is making is attracting more than State-wide attention, as is evidenced by the demands of industry for our graduates.

The Engineering School takes high rank among the colleges of the country, and it is proper that the students and professors should celebrate and exhibit their accomplishments. The Saint Patrick's Day celebration should give all a better idea of what the school stands for. The people of North Carolina are watching our institution as never before and expect greater things because of the technical training provided here.

(Signed)

D. Booths President.

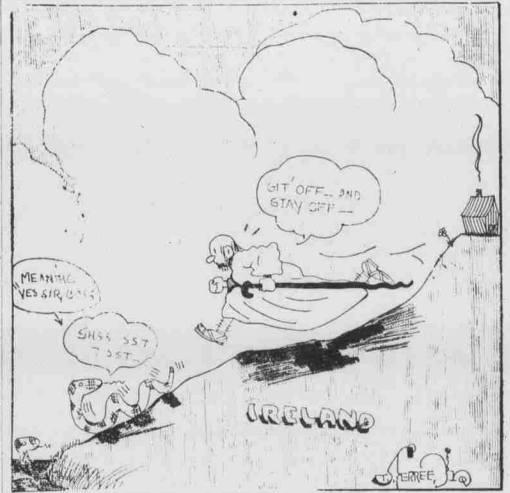
Through the Transom

By Dick Yates

At the Jackson Day Dinner last Saturday evening ample proof was given that a man, no matter how much power he may hold or how much influence he may have, who once bolts the party places himself in a position to be talked about. Simmons failed to attend, being kept absent on account of "legislative duties." At the mention of his name and all during the reading of his speech, the hall echoed with hisses; one chap even went so far as to take the floor, saying that Simmons gave "a hell of an excuse." Almost the entire body showed that they were absolutely in favor of the candidacy of Bailey. If the gathering was really representative of the Democrats of the State, our friend Bailey should experience no difficulty besides rest on past laurels to gain any victory. The past sometimes remains, and is buried as the past.

If the worthy exchange editor (incidentally, his worthiness is questioned at times by the best of authorities, but that, like all things pertaining to exchange editors, is non-essential) will pardon us for taking this matter up, we would like to offer our congratulations to the editor of the Carolinian, N. C. C. W. Her editorial relative to the classic example of intolerance shown by the D. A. R.'s in their resolution showed thought far above

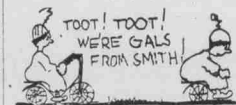
St. Pat Made First Worm Drive



COMMENT from other COLLEGES

By R. M. L.

Ladies and gentlemen of the great reading public, I do most humbly beg your pardon and seek your forgiveness for allowing myself to be persuaded to permit our esteemed (??) editor of the Transom column to operate this department last week while I was suffering from a severe attack of Examinationibus Aestivus. I only did it as a trick to get some of his writings read, not realizing the full extent of his moronic tendencies. I now realize that anyone else (even Mr. Abernethy) would have been better. With the apology of my chest, I feel much better and will now proceed to enumerate a few more marvels of the modern collegiate world.



Two hundred and eleven students at Smith College go from class and all about on bicycles, according to the Old Gold and Black. The explanation offered is that there is a no-car rule in force there. This reminds us that at Mercer there is a distinguished old

professor who pedals about on a similar vehicle.

Boys at Randolph-Macon recently held a bananacating contest, and the winner only consumed nine.

The average bull-hall boarder at State could eat that many after any meal there, according to the way they talk about it.

And at Randolph-Macon Woman's College the dear little frails are not allowed to dance with one another in a face-to-face position.

We don't know from this whether they do the Virginia Reel, the Folliess' style, or ring-around-the-rosy.

At the grand old University of Oxford there is a rule that "no student shall play marbles in front of the main building." Now beat that!



For sheer cleverness we give the prize to a youth at the Oklahoma Baptist University who, disguised as a woman, traveled about the country with a women's symphony orchestra for a year.

When interviewed about the event, his only remark was, "I shall never marry."

McGill University bids fair to revive an interest in the art of debating. Their latest query is, "Resolved, That it is better to suffer the effects of the morning after than to have missed the pleasures of the night before."

Advertisement for Finchley Hat, featuring an image of a hat and the text 'THE FINCHLEY HAT', 'SEVEN DOLLARS', and 'AGENTS IN THE PRINCIPAL CITIES OF THE UNITED STATES'.

Advertisement for HUNYEGUTT'S LONDON SHOPS, featuring the text 'We Are Exclusive Agents for FINCHLEY HATS in Raleigh' and 'COLLEGE COURT HARGETT AT SALISBURY'.

**Chemical Engineering**

Located in the center of the rapidly growing chemical industries of the southeast, N. C. State College is responding to the demand for trained chemical engineers. Although the Chemical Engineering Department has been in existence only five and one-half years, it has become in number of students one of the largest strictly chemical engineering departments in the South. Of the one hundred and twenty-eight chemical engineering students twenty-one are seniors. Thirty chemical engineering degrees have been granted, and each of the graduates has been actively engaged in chemical industries and has given satisfactory service. Two of the graduates of this department have been granted graduate fellowships in chemical engineering in Massachusetts Institute of Technology, and one of these is now assistant director of the Bangor Station of Chemical Engineering Practice of that institution.

National recognition of the department has been received during the year in the fact that the American Institute of Chemical Engineers has established the first student branch of the A. I. Ch.E. at this institution. The

vice-president of the institute visited State College and addressed the student branch. This has been one of the most active technical societies on the campus this year. It has been a very helpful factor in promoting the professional idea and ethics among these technical students.

This year students are registered in the department from the following outside states and countries: South Carolina, Tennessee, Virginia, West Virginia, Georgia, New York, Massachusetts, District of Columbia, Porto Rico, and Mexico.

Graduates of this department are employed as chemical engineers in the following industries: Designing and building oil refineries, carbide, paper companies, rayon, fertilizers, lacquers and paints, engineering departments of the State Board of Health, superintendent of city gas plant, superintendent of city water-works, petroleum oil refining, cottonseed oil refining, steel company, smelting and sulphuric acid, aluminum company, sugar refining. Most of these positions are in North Carolina and in adjoining states.

Chemical engineering is no longer an experiment. It is one of the most important of the engineering profession. The field is not stocked with trained men. An energetic young man may rest assured that if he properly trains himself, his services will always be in demand. The personnel managers of the largest chemical in-

dustries in the country regularly visit this department to interview the seniors for employment. Thus the chemical engineering profession offers inviting opportunities to young men in a field of great service for the welfare, comfort, and progress of people.

**Highway Engineering**

The building of substantial highways has been one of the major activities of the states during the past 15 years. North Carolina has led in this work through a rapid completion of its State Highway system. While the building of these State roads has been almost completed, there will always be the problem of keeping them in a proper state of repair; and therefore there will hardly be any cessation of highway work, for many years.

There is a feeling in North Carolina that the State should take over many of the heavily traveled county roads. This will mean the expansion and enlargement of the State Highway System. Not only that, but with the improvement of State roads, there will be more active interest in county roads. It may be expected, then, that the building and improvement of county roads will proceed with more activity than heretofore.

Other states have fallen in line in road building activities and it is estimated that approximately two billion dollars will be spent in all highway activities in the United States during 1930. The Federal Government has recently appropriated \$125,000,000 for Federal aid to the states in building interstate highways.

All of which means that there will be a continued and growing demand for highway engineers, and for graduates in highway engineering from State College.

Not only in the specific work of building and maintaining highways is there demand for graduates from this college, but many companies who are furnishing materials and equipment used in the construction of roads are taking on young engineers for training courses which will develop them into technical salesmen. It is expected that several of the members of the present senior class will go with such companies.

At present there are 12 seniors in Highway Engineering and 15 juniors. Many of the seniors are taking highway engineering, in addition to the regular civil engineering work.

The research course given in this department for graduate students has proved very popular. There has been one or more students taking this



**There's a Silver Lining**



*in the* **Pause** *that refreshes*

So many unhappy things can happen to increase that old inferiority complex. Deans and Doctors, Mid-years and Finals, all dedicated to the cause of making life a burden. Coca-Cola was made for times like these. Here's a drink that will quickly invest you with some of its life and sparkle. Give your exceedingly joy in its tingling, delicious taste. And leave you with that cool after-sense of refreshment in which a righteous megalomania may wax fat and prosper.

The Coca-Cola Company, Atlanta, Ga.

CW-5

9 MILLION A DAY—IT HAD TO BE GOOD TO GET WHERE IT IS

— FREE! —  
This Coupon and 25 cents will admit one State College student to SEE and HEAR (Matinee Only)

**STATE**  
Mon-Tues-Weds  
**RUTH CHATTERTON**  
— IN —  
**"SARAH and SON"**  
All-Talking  
With **FREDERICK MARCH**  
Also  
Talking Comedy, Musical Act and Sound News

Thurs-Fri-Sat  
**"BURNING UP"**  
with  
Richard Arlen—Mary Brian  
Also  
Talking Comedy, A Musical Act  
**"MEMPHIS"**  
A Crazy Kat Cartoon  
and  
**PARAMOUNT SOUND NEWS**

— FREE! —  
This Coupon and 25 cents will admit one State College student to SEE and HEAR (Matinee Only)

**PALACE**  
Monday-Tuesday-Wednesday  
**ALICE WHITE**  
with  
**CHESTER MORRIS**  
...in...  
**"PLAYING AROUND"**  
Thursday-Friday-Saturday  
**LON CHANEY**  
...in...  
**"The Phantom of The Opera"**  
Talking-Singing  
Scenes in **TECHNICOLOR**

course for the past four years. At the present time, three graduate students are registered in Highway Research. The Highway Engineering Department is closely related to the Civil Engineering Department. These departments moved into the new Civil Engineering Building in the fall of 1925. It has taken some time to get the building properly equipped to handle instruction satisfactorily. Much improvement in this respect has been made during the past year. The principal addition has been a room equipped for the use of a motion picture machine and projection lanterns. This will enable this department to give illustrated lectures on subjects in highway engineering.

and composition. Rendering in various media is given to enable students to present their work to the best advantage. The work of the freshman year is similar to that of the other engineering departments. Each succeeding year, the student specializes more and more in the problems of the architectural engineer. There is a great field of usefulness in the State of North Carolina, and throughout the whole South, for better architecture, and the department is earnestly endeavoring to supply students to develop in this field.

chairman, Dean B. F. Brown, Dean T. E. Browne. The winning team will be awarded the Faculty Cup, won last year by the Department of Mechanical Engineering. The Raleigh Times' Cup will be awarded to the department having the best exhibit. This cup was won last year by the Department of Ceramic Engineering. Individual awards will be made to the students having the best exhibits at the fair. To qualify for an award an exhibit must be the individual work of a single student.

**Wetmer Elected Saint Patrick By State College Engineersmen**  
(Continued from page 1)  
case of a candidate failing to present himself for dubbing at that time his election becomes void, and his name cannot again be presented.  
The first "St. Pat" at State College was John A. Anthony, Jr., M.E. 27. He is now located at Harvard, Conn. The second was G. R. Hall, Arch. E. 25. He is now living in New York City. Last year the honor fell upon A. McK. Greaves-Walker, Cer. E. 29. He is now an instructor in Ceramic Engineering at State College. This year W. W. Wetmer, E.E. 30, was elected to this highest of all honors in the School of Engineering.

**Chemical Engineers Granted Charter By National Society With Harwood New President**  
(Continued from page 1)  
local industries of North Carolina and adjoining states, the American Institute of Chemical Engineers met in Asheville in December, at which meeting President E. C. Brooks, Dr. E. E. Randolph, and Prof. A. H. Grimshaw appeared on the program.  
The institute is about 40 years old, and during this time only 15 colleges and universities have met the requirements for admission. Among the schools that have chapters are: M. I. T., Lehigh, Michigan, Brooklyn Poly Tech, Illinois, Purdue, Carnegie, Cornell, and Wisconsin.

**Anything You Need In the PRINTING Line--**

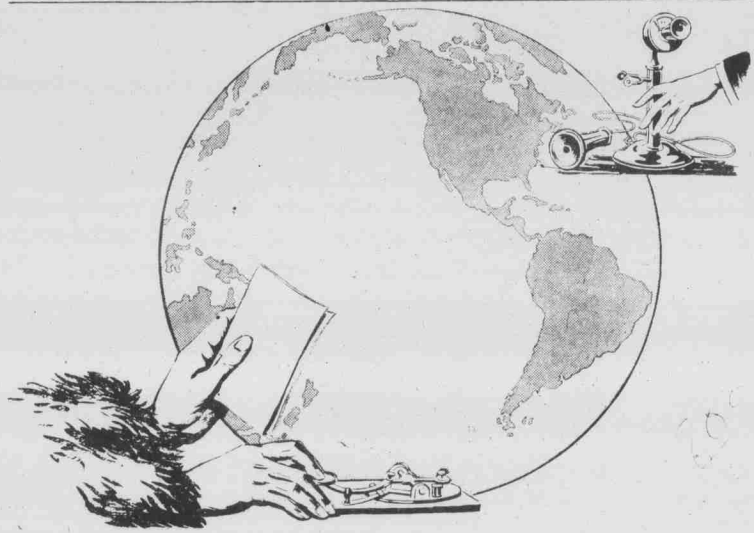
CALL PHONE 1351 when you are ready to place an order

Quality Service Satisfaction

**Architect Engineering Registers 75 Students**  
(Continued from page 1)  
regularly in the problems formulated by the Beaux-Arts Institute of Design of New York City, an organization of national scope, established for the purpose of promoting and developing the best thought and ideas in architecture in America. These problem drawings are judged in competition with those from other schools from all over the United States, and N. C. State College has received many mentions.

**Many Prominent Citizens Judge Engineer Exhibits**  
(Continued from page 1)  
Rowe, engineer, Carolina Power and Light Co.  
Judges of individual exhibits at Engineers' Fair: Lieut. Col. V. C. Early,

**CAPITAL PRINTING COMP'NY**  
Wilmington and Hargett Streets



**"Meinholtz, the Times Wants You ---"**

FRED E. MEINHOLTZ of the New York Times sat in his home on Long Island, listening-in on a radio press dispatch from the Byrd expedition. Someone on the Times staff wanted to reach Meinholtz on his home phone. And quickly! But the receiver there happened to be off the hook.

Radio science was equal to the occasion. The Times radio operator sent a request to the fur-clad operator at the other end of the world. And Meinholtz was quickly made aware of the situation by a radio message from Antarctica saying: "Meinholtz, the Times wants you to hang up your receiver so that they can call you on the telephone."

JOIN US IN THE GENERAL ELECTRIC HOUR, BROADCAST EVERY SATURDAY AT 9 P.M., E.S.T. ON A NATION-WIDE N.B.C. NETWORK

**GENERAL ELECTRIC**

Radio and research are among the many lines of work in which college-trained men are engaged at General Electric, where they also receive further technical and business training.

**"Quality"**  
Will Always Win the Marathon of  
**Drug Service!**  
In Quality you find Value.  
Our motto is  
"Quality Plus Service"

CADER RHODES, Proprietor

**College Court Pharmacy**

## Civil Engineering Composed of Three Specialized Groups

Some one has said "Engineering is the science, art, and business of diverting economically, the forces and materials of nature for the use and convenience of man." This definition covers Civil Engineering in all respects. It is a science because it requires an intimate knowledge of scientific laws and principles for its successful practice. It is an art, for it has to do with achievement. There is a vast difference in knowing how to do a thing and how to get the thing done. Engineering recognizes this fact and couples to the knowledge of science the art of achievement. Civil Engineering is also a business, for it has a commercial aspect; it aids its practitioner in making a living. In short, these are briefly the principles which should be emphasized upon students during the college course in engineering.

The course of studies in the Department of Civil Engineering at this college has been built up during a period of 25 years by careful observations of the needs of the times, by a study of similar courses at other universities and colleges, and by assistance in the nature of suggestions from its alumni who have been engaged since graduation in business and professional work. However, at no time have the fundamental subjects been sacrificed in time or attention, in order to make room for new subjects which for the time being might have met with popular approval. It is impossible in a four-year course to give thorough training in the few courses offered, but sees no way in a complete course in any of the various branches of civil engineering. Recognizing this fact, the course of studies is made up of subjects common more or less to the more general

## ANNOUNCEMENTS

### Lost-and-Found Bureau

FOUND—Clip board, cap, watch ring, fountain pen, ring glasses, books, and a watch.

LOST—Slicker, pencil, and a slide rule.

If you have lost any article, call at the Lost and Found Bureau. Open from 1:15 to 1:45 p. m., 8:45 to 9:15 a. m. Saturday.

### Men

Interested in tennis, meet in Peete, Room 4, from 1:30 to 2:00 every Wednesday afternoon. This applies to both freshmen and upperclassmen.

### All Engineers

Are urged to be at Cabarrus and Fayetteville streets (one block beyond Sir Walter Hotel) at 7:45 p. m. sharp on Thursday evening, March 27. Students will form behind their departmental floats on Cabarrus street.

Every engineer is expected to parade and help his department and State College make this the greatest parade ever held in Raleigh.

### Engineers

May obtain invitations to the Engineers' Celebration for mailing to friends by applying at the office of the Department of Ceramic Engineering. Each student is entitled to two invitations only. Get yours and mail to family and friends.

branches for the first three years, allowing the student to specialize during the fourth year.

The civil engineer is needed in this State. He is needed in municipal engineering, which includes supplying water for domestic use, the treatment of sewage, the disposal of refuse, the paving of streets, and the planning for the future growth of the city; in building railroads; in developing water power; and at present most especially in building and maintaining highways. But his energies should not be restricted solely to his profession, for his training has been such that he is able and should take part in the community life, extending his influence to the State government as well. The department keeps in touch with practically all the graduates who have gone out in the past 25 years, and by this means it is not only able to place each year the graduates, but puts them in places where they are best qualified to fit.

The student is usually inclined to like the position paying the most salary regardless of his especial fitness, whereas, in many instances, the position paying the first the lowest salary is filled by the man possessing aptitudes for this particular work.

The division of Construction Engineering put in three years ago has shown its worth not only by the increasing number of men selecting this course, but by the interest the individual student has shown in his work.

A division of Sanitary Engineering was created last June by the Board of Trustees and the work put in charge of a competent man who had several years' experience with the Bureau of Engineering, State Board of Health.

### DANCE SELECTIVE

As in previous years only students registered in the School of Engineering will be admitted to the Engineers' "Grand Brawl" at the Gym Saturday evening. All engineering students must show registration cards for the spring term at the door.

Seniors elected to knighthood in the Order of Saint Patrick must be present in person at the dubbing ceremonies, otherwise election becomes void.

### Ceramic Engineering Has Big Field As Profession

(Continued from page 1)

paratively new branch of engineering with a tremendous group of industries behind it, the ceramic engineer has found many offering for his services, and he has therefore obtained rapid promotion.

The department at State College graduated its first class in 1927 and each of the eight graduates are now holding splendid positions. One is general manager of a face-brick plant; two are superintendents of large modern structural products plants; one is a chief chemist; one the control engineer for the world's largest retractor corporation; two are research engineers, who have some really fine discoveries to their credit and one an instructor in ceramic engineering.

Already the class of 1930 have been placed with strong companies, several of which rank among the largest in the country.

The ceramic industries of North Carolina and the South are still in their infancy and it is safe to say that young Tar Heels can find no greater opportunities in the entire field of engineering than will await those who enter ceramic engineering.

## Princess Pat



MISS VIRGINIA ROGERS, of Raleigh, N. C., daughter of Mr. and Mrs. Charles H. Rogers, who has been selected as sponsor of the Engineers' Council at North Carolina State College and as such will preside as "Princess Pat" at the "Grand Brawl" of the School of Engineering, elaborate annual social function, which will be held at the College late in March. W. W. Weltmer, N. C. State '30, of Asheville, N. C., president of the Engineers' Council, will be "Saint Pat."

### Mechanical Engineering

Mechanical Engineering began to be recognized as a separate branch of engineering about 1850, but it was not until 1889 that the profession of Mechanical Engineering emerged as a separate entity and began to carve a place for itself in the industrial life of the Nation and of the world. The latter year marked the organization of the American Society of Mechanical Engineers.

The industrial revolution began to make itself felt in North Carolina, and so in 1889 the North Carolina College of Agriculture and Mechanic Arts opened its doors. The fact that this opening occurred soon after the rise of the mechanical engineer is a significant one. From the time of its inception the college's mechanical courses were under the guidance of strong personalities, who, although working within the limited scope prescribed by the early policies of the college, nevertheless seem to have

had always before them a vision of the larger field of professional teaching toward which the college was inevitably bound to progress. Casual observation alone serves to show that although the early mechanical courses were naturally of industrial nature, a great deal of teaching of a professional nature was undertaken.

The outstanding thing about mechanical engineering is that it, more than any other branch of engineering, is an indispensable factor in the successful development and operation of a very wide range of industrial processes. Even the production of electrical or textile goods, for instance, is very largely a mechanical engineering job.

### Aeronautics Option

The demand for instruction in aeronautics caused the Mechanical Engineering Department to consider offering courses in this science. A committee from the Mechanical Engineering faculty was appointed by the dean of engineering for the purpose of outlining an option in aeronautics, which option should be a part of the curriculum of Mechanical Engineering. During the latter part of 1928 this committee made a survey of the schools offering aeronautics and decided that we could introduce at this institution a course of instruction that would compare favorably with the best in the country. Accordingly, courses in aeronautical engineering are now being offered as an option in the Department of Mechanical Engineering.

This option includes such subjects as "Elements of Airplane Theory and Design," "Airplane Engines and Installations," "Theory and Practice of Airplane Design," "Aerodynamics," "Aero-Engine Design," and "Elements of Navigation." A student enrolled for the Aeronautics Option will pursue the regular curriculum in Mechanical Engineering during the freshman, sophomore, and first two terms of his junior years. At the beginning of the third term of his junior year he will begin to specialize by taking aeronautical subjects instead of the prescribed work for Mechanical Engineers. The work in aeronautics is based on a solid foundation of mathematics, applied

### VISIT THE NEW

## PURITAN CAFE

Opposite Commercial Nat. Bank  
Fried Spring Chicken Dinner, 50c  
Served Daily from 9:30 to 9:30  
A La Carte Service

mechanics, and mechanical engineering. At the completion of the curriculum the student receives the degree of bachelor of science in mechanical engineering, aeronautical option.

### Electrical Engineering

The province of electrical engineering is in one respect a narrow one, since its principal function is that of transmitting power from the place where it is produced to the point where it is to be used. Yet looked at from another viewpoint, the field is as broad as modern industry, for the electric drive has become the standard method of mill operation in practically all manufacturing processes. Moreover, since electric power is an integral processes where the presence suitable for driving a sewing machine

as a steel mill, for operating a telephone receiver as well as an electric locomotive, or for lighting the home as well as heating an electric furnace, it has taken over certain fields of application to the exclusion of all other means. For the operation of household appliances of all kinds it alone is utilized. The telephone, the telegraph, the radio, and practically all systems of communication are electrical. Nor does one often see any of the older methods of lighting today, as the electric lamp has made this field its own wherever electric power is available. Again, when the need is for power uncontaminated with materials, the electric system stands supreme. This is one of its chief advantages when used for lighting, and for certain chemical and metalurgical processes where the presence of fuel is undesirable.

### RHYTHM . . .

It's born in us. That's why we love to hear the rhythmic thrum of the banjo—the wail of the sax—the chords of the ukelele . . . it's the rhythm!

Why don't you learn to play? We give expert instruction and the cost—why, you'll hardly miss it. Drop in and arrange the details now.

### BRANCHES TAUGHT

Piano—Tenor Banjo—Ukelele—Mandolin—Guitar—Saxophone

## HESTER STUDIO OF MUSIC

ORA FORD HESTER, Pianist and Instructor  
Telephone 3558 105 1/2 W. Hargett St.  
(Over Ideal Cleaning Co.)

### YOU'RE INVITED—

VISIT US—TRY OUR FOODS—COMPARE OUR PRICES—TEST OUR SERVICE. We Bet You'll Like Us!

Fraternalities will save money—Faculty wives will save their tempers and everybody will be satisfied, because we combine cleanliness with service and economy with quality.

### Here're a Few of Our Regular Items—Note the Prices

Maxwell House Coffee ("good to the last drop"), lb. . . . . .	39c	Fresh Vegetables (Crisp and really fresh)	
Campbell's Tomato Soup, 3 cans for . . . . .	25c	Salmon (fresh and tasty), can . . . . .	12c
Kellogg's Pep (it's good for you), pkg. . . . .	12 1/2c	New Irish Potatoes, Lb. . . . .	10c

## BLUE STAR STORES

College Court (You'll Like Us)

### Dr. S. E. Douglass

#### Dentist

5th Floor Raleigh Banking and Trust Co. Building  
PHONE 298

## Pizer Bros.

10 East Hargett Street  
Just off Fayetteville St.

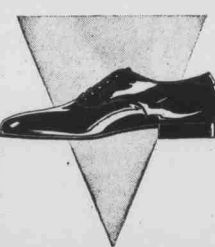
### Young Men's Collegiate SUITS

Prices—  
\$19.50 \$22.50  
and  
\$24.50

Values up to \$35.00

Latest Patterns for Spring

Whoopee Pants . . . . . \$3.95  
Young Men's Hats . . . . . \$2.95  
Ties . . . . . 50c and \$1.00  
Shorts and Shirts, 50c each  
Dress Shirts—full cut and fast colors . . . . . \$1.00



The more active the foot, the more important the fit. Hence we're not a little proud of our success in fitting college men!

\$7 and \$9.

John Ward  
MEN'S SHOES

Inspect These Fine Shoes at  
HUNECUTT'S LONDON SHOP  
College Court

... on the screen it's CHARM!



... in a cigarette it's TASTE!

"MERIT IS SURE to rise." Make a cigarette of better quality, of richer aroma and finer fragrance—and all the world will find it out.

Witness Chesterfield's popularity, growing every day. No flash in the pan, but enduring popularity—earned by giving smokers the one thing they want:

"TASTE above everything"



MILD . . . and yet THEY SATISFY

# Chesterfield

FINE TURKISH and DOMESTIC tobaccos, not only BLENDED but CROSS-BLENDED