



THE TECHNICIAN

of NORTH CAROLINA STATE COLLEGE

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Gifts To Foundations Now Total \$942,000

Rush Week Terminates With 104 Men Pledged

Pi Kappa Alpha Leads With 31 New Members

As a result of a week's feverish rushing, followed by a five day silent period, 104 freshmen became pledges of eight Greek-letter social fraternities on the campus, the Dean of Student's office announced yesterday.

The number of men to pledge this year represents slightly less than double that of last year, when only 57 men accepted invitations to pledge after the '44 Rush Week.

During the rushing period, each fraternity entertained extensively with parties and dances.

The Pi Kappa Alpha Fraternity led the field with the largest number of pledges, having secured 31 men. The SPE's were second with 16, and the Sigma Chi's and Sigma Pi's each got 15.

Seventeen out-of-state men accepted their bids. New York led all the states with 6. Virginia was second with 5. Three South American men pledged fraternities. Florida, South Carolina, and Georgia had one boy each to pledge.

The following is a complete list of all new pledges and last year's pledges who were re-pledged at the beginning of the year:

Alpha Lambda Tau
N. A. Price, Rocky Mount, N. C.

Delta Sigma Phi
G. S. Benson, Reisterstown, Md.; R. W. Boling, Henderson, N. C.; J. C. Carr, Godwin, N. C.; W. H. Cashion, Statesville, N. C.; J. C. Cowart, Newport, N. C.; J. C. Deas, Canton, N. C.; C. B. Elks, Washington, N. C.; T. M. Haislip, Oak City, N. C.; H. V. Rhodes, Norfolk, Va.; K. A. Sherrill, Mooresville, N. C.; D. W. Stewart, Durham, N. C.; A. W. Wilson, Hillsboro, N. C.

Pi Kappa Alpha
Herbert L. Banton, Lynchburg, Va.; Robert L. Bird, Raleigh, N. C.; William D. Caffrey, Morehead City, N. C.; Clifton R. Churn, Raleigh, N. C.; Ted B. Daly, Charlotte, N. C.; Claudius Dockery, Greensboro, N. C.; P. H. Edwards, Dowd, Wilmington, N. C.; N. C. Fidler, Jr., Burlington, N. C.; George Fitzsimmons, Charlotte, N. C.; William Funderburk, Charlotte, N. C.; Fred T. Giles, Newport News, Va.; Walter Hester, High Point, N. C.; James H. Jones, Charlotte, N. C.; Donald Lampe, Charlotte, N. C.; Leake Lovin, Jr., Roanoke, Va.; Joseph M. McDowell, Goldsboro, N. C.; H. P. Milligan, Jr., Greensboro, N. C.; Bonnie J. Moffitt, Raleigh, N. C.; Edward Dowd, Greensboro, N. C.; William Neal, Roanoke Rapids, N. C.; Jimmie M. Randle, Mt. Holly, N. C.; John D. Sadler, Tarboro, N. C.; Joseph Smart, Monroe, N. C.; W. Gilbert Smith, Rutherfordton, N. C.; Donovan Stadler, Burlington, N. C.; Jack T. Tate, Greensboro, N. C.; Ovid G. Watson, Badin, N. C.; William B. White, Henderson, N. C.; W. M. Williams, Ft. Myer, Fla.; Richard C. Yow, Asheville, N. C.

Sigma Alpha Mu
Sheldon Boyer, New York, N. Y.; Jay L. Berkett, Bronx, N. Y.; Albert A. Fischer; Eugene Glock, Brooklyn, N. Y.; Harold Goldberg, Bessemer City, N. C.; Leonard A. Goldman, Brooklyn, N. Y.; Carlos Gorenstein, Rio De Janeiro, S. A.; Helms H. Greenberg, Greensboro, N. C.; Sheldon Manekin, Asheville, N. C.; Stanley Pinto, Long Beach, N. Y.; B. H. Sirota, New York, N. Y.

Sigma Chi
Alejandro Bautista, Mexico City, S. A.; Guy Cheney, Raleigh, N. C.; Phillip Coche, Asheville, N. C.; Jack Crum, Raleigh, N. C.; Charles David, Asheville, N. C.; Floyd Harper, Jr., Charlotte, N. C.; Walter Hobbs, Delco, N. C.; Ernest B. Huffine, Greensboro, N. C.; Robert W. Mills, Raleigh, N. C.; George Monk, Victoria, Canada; David E. Myrick, Asheville, N. C.; Charles A. Plank, Asheville, N. C.; Gonzalo Saenz, Medellin, Col.; S. A. Vance Sawrey, Smithfield, N. C.; Mack Stamps, III, Durham, N. C.

Sigma Nu
Wm. M. Andrew, Jr., Shelby, N. C.; F. L. Blank, Jr., Greenville, N. C.; R. F. Lomax, Jr., Lenoir, N. C.

Sigma Pi
Jimmy Blair Barber, Mt. Airy, N. C.; Theron E. Burts, Jr., Charlotte, N. C.; Fred W. Butner, Jr., Winston-Salem, N. C.; Earl R. Cook, Kannapolis, N. C.; William A. English, Monroe, N. C.; S. A. Feltz, Jr., Spencer, N. C.; John R. Keziah, Kannapolis, N. C.; Martin M. Mackie, Winston-Salem, N. C.; Abram H. Merritt, Jr., Mt. Airy, N. C.; Bob S. Merion, Albemarle, N. C.; Charles H. Moss, Kings Mountain, N. C.; H. Kapp Ogburn.

(Continued on Page 4)

Honored By Engineering Fraternity At N. C. State College



Horace M. Adams, Robert W. Kelly, J. Tom Wayne, D. M. Matusow, Joseph M. Monroe, R. W. Russell, Jr., Robert E. Wooten

The N. C. State College Chapter of Pi Tau Sigma, honorary mechanical engineering fraternity, recently elected to its membership seven top-ranking students. These students were taken into the organization on the basis of their scholastic and leadership attainments. The new members (shown above) are Horace M. Adams, Robert W. Kelly, J. Tom Wayne, D. M. Matusow, Joseph M. Monroe, R. W. Russell, Jr., and Robert E. Wooten.

Chance For Students To Earn Cash Prizes

C. E. Palmer, Southwest Arkansas newspaper publisher, announced recently that he was making \$100,000 available for the establishment of the Palmer Foundation which will have as its paramount objective the promotion among the people of an attitude of fairness and unselfishness in personal and public affairs.

H. W. Stilwell, superintendent of Texarkana, Texas schools, has been appointed president of the Foundation.

It is Mr. Palmer's idea that the work of the Foundation be carried on through the public schools, but it would not be limited to the schools if other effective media were found.

A plan procedure has not been adopted, and the first project of the Foundation will be award of cash prizes for the most meritorious suggestions as to how the work should be carried out. The Foundation will award a \$1000 cash prize for the suggestion deemed most worthy, and \$500 for the next proposal.

Specifically, suggestions should answer this question: "How best may we inculcate in young people a consciousness and appreciation of, and a devotion to, the principles of morality that are embodied in the Golden Rule—Do unto others as you would have others do unto you?"

Suggestions may be submitted by individuals, groups of individuals or on behalf of any school or college. Suggestions may be made at any time between now and January 31, 1946. All material submitted is to become the property of the Foundation.

(Continued on Page 4)

Girl Awarded 4-Year Textile Scholarship



DR. C. G. BRENNECKE

New Head Of E. E. Department Named

Dr. Cornelius G. Brennecke of Bethlehem, Penn., former associate professor of electrical engineering at Lehigh University, has assumed his duties as head of the Department of Electrical Engineering at N. C. State College, it was announced here Tuesday.

Announcement of the appointment of Dr. Brennecke was made in September by Dean J. Harold Lampe, head of State College's School of Engineering. Recommendation that Dr. Brennecke be offered the college post was made by a faculty committee, and the committee's recommendation received the approval of Chancellor J. W. Harrelson and the executive committee of the Greater University's Board of Trustees.

Dr. Brennecke, who is highly endorsed by eminent engineers and engineering educators, has served at Lehigh for the past three years as director of the university's work in electronics and communications. Prior to his connection with Lehigh, Dr. Brennecke was for six years a member of the faculty of the University of Toledo, where he also directed the training of engineering aides for the U. S. Army Signal Corps.

Dean Lampe said that Dr. Brennecke has had numerous contacts with industry, having worked for three years as design engineer for the Radio Corporation of America. He also spent five years doing graduate research work at New York University. His research was in atomic physics and in the conduction of electricity through dielectrics. Recently, he has been carrying on research on electronic devices for decreasing the hazards of atomic operations.

The new faculty member, a native of New York, was educated at Columbia University, where he earned his A.B., B.S., and E.E. degrees, and at New York University, where he received his Ph.D. degree. He is 39 years of age.

Dr. Brennecke's professional affiliations include membership in Sigma Xi, America's highest honor society in the general sciences, the Institute of Radio Engineers, the Society for the Promotion of Engineering Education, and the American Institute of Electrical Engineers. He has been chairman of the Toledo Section and manager of the Bethlehem District of the American Institute of Electrical Engineers.

Dean Lampe said that Dr. Brennecke has published technical articles explaining his scientific accomplishments in The Physical Review, The Proceedings of the Institute of Radio Engineers, The Journal of Applied Physics, and other periodicals. He also has done consulting work in acoustics, sound reproduction, and illumination.

The new State College educator, noted nationally for his work as a physicist, teacher, and engineer, gained wide recognition for his achievements at New York University on artificial nuclear disintegration by high voltage proton beams and published a paper in The Journal of Applied Physics on

(Continued on Page 4)

Textile Foundation Leads With \$704,000

State Begins 57th Year In Educating Future Businessmen

Without missing a step in its vast academic and research programs, State College celebrated its 57th anniversary of its founding last week and heard six distinguished speakers laud its contributions to education, scientific progress, social advancement, the agricultural and industrial development of North Carolina, and to the promotion of technology in the South and nation.

The speakers, all of whom praised the record of achievements of the faculty, students, and alumni, told of the progress made by the technological institutions of the nation, such as State College, and the scientific knowledge gained from State College to the elevation of the living standards of the people of the State.

Messages were delivered by John W. Clark of Greensboro, a prominent textile industrialist and newspaper executive, who made the main address; Cedric Foster, noted news analyst of the Mutual Broadcasting System and the Yankee Network; Josephus Daniels, editor of The News and Observer and one of the founders of State College; Dr. Frank P. Graham, president of the Greater University of North Carolina; and Col. John W. Harrelson, chancellor of State College.

Clark, who is president of the College's General Alumni Association, and a director of The Greensboro Daily News Co., declared: "State College has rendered service to North Carolina in so many lines of endeavor that it will not be possible for me to touch upon many of them in the time allotted, but I feel that with the foundations now being built up and greater support expected from the state, this institution is destined to render far greater service in the days ahead.

"State College was created to give North Carolina boys an education that would enable them to develop our resources and to help bring prosperity and a higher standard of living to our entire population."

Pointing out the need for more educational facilities in the State, Clark said that a larger portion of Federal excise taxes levied on tobacco, North Carolina's principal cash crop, and on water power, one of the main natural resources, should be paid to the State government to be used for educational and social progress.

At least 20 per cent of the 446 million dollars collected from tobacco manufacturers in North Carolina should remain in the State instead of being transported to Washington to swell the national coffers, (Continued on Page 4)

Textile Foundation Leads With \$704,000

State Begins 57th Year In Educating Future Businessmen

Gifts to North Carolina State College foundations now total \$942,000 it was announced Wednesday by R. D. Beam, Director of State College Foundations. The foundations at State College serve in a very important capacity since they make it possible for the various schools and the college to make improvements through the gifts of alumni and organizations which hold an interest in State College.

A breakdown of the assets and the objectives of the various foundations is given as follows:

The North Carolina State College Foundations

Assets of the North Carolina State College Foundation now total \$68,000. This foundation is incorporated under the laws of North Carolina, and is empowered to receive, hold, and administer gifts and donations for the objects and purposes outlined below.

The membership of fourteen Directors of the Foundation is composed of the President of the University of North Carolina, the Dean of Administration of State College, four trustees of the University of North Carolina, and eight alumni or former students of State College. The directors serve without compensation.

The purposes for which the State College Foundation has been formed are benevolent and educational. All income other than that needed for operating expenses, shall be used to foster the welfare, promote the progress, and increase the usefulness of North Carolina State College. In fulfilling these objectives the foundation will attempt to provide financial assistance to students, to enlarge the educational mission of the College in teaching and in research, to enrich the students' opportunities for both learning and recreation, by providing concerts, educational demonstrations, lectures, and like activities, and to contribute toward permanent improvements of the College.

The Textile Foundation

Enlarged facilities and the employment of better trained personnel at N. C. State College through the donations of the Textile School and Carolina Textile Foundation is providing a broader education in textiles for the youth of North Carolina.

The Textile Foundation, with a \$704,000 endowment, leads all other foundations in the State. It has received the goal of \$600,000 previously set has already been surpassed and now the leaders of the Foundation hope that a second goal of \$1,000,000 will be reached.

Objectives of the Foundation are to provide means for adequately equipping the Textile School and to assure staff members of more adequate compensation for their services in an attempt to obtain better trained graduates in textiles to fill vital positions in the industry. An extensive program of research is also being started with plans for future expansion.

The Foundation contemplates a well-rounded training program at the Textile School to include marketing and business management, personnel management, enlargement of the designing department, support of the Textile School in carding, spinning, weaving, knitting and finishing, seamless hosiery, full-fashioned hosiery and other types of knitted goods, and more extensive research in all phases of the textile industry. Headquarters of the Foundation are at State College.

The Engineering Foundation

The Engineering Foundation has to date gifts totaling \$80,000. The largest gift was one of \$25,000 contributed by the North Carolina Shipbuilding Corporation at Wilmington.

The objectives of the Foundation are to expand engineering research facilities at State College, to improve teaching facilities, to strengthen the college's instructional staff, and to develop a plan of engineering extension whereby the college reaches to broaden its services to industry. It is also anticipated that the Foundation will aid the college in constructing a \$700,000 general engineering laboratories building. Former Governor J. Melville Broughton is president of the Engineering Foundation.

The Agricultural Foundation

Gifts to the Agricultural Foundation now total \$60,000 it was announced by Mr. Beam. Just recently the Feed Manufacturers Association contributed \$26,000 to this organization.

The Agricultural Foundation, chartered on December 28, 1944, has a charter membership of approximately 50 farm leaders of the state. It is a non-profit, charitable and educational corporation, empowered to receive donations, to purchase, lease, and otherwise acquire

(Continued on Page 4)

Pi Tau Sigma Holds First Meeting Of Year

A meeting of Pi Tau Sigma, a national, honorary, mechanical engineering fraternity was held last week at Page Hall. The purpose of this first meeting was to reorganize the fraternity and to plan activity during the summer and to attempt to get back to prewar normalcy of operation. At this meeting the following permanent committees were appointed: auditing, eligibility, social and program, financial, letter, and alumni contributions. Horace M. Adams was elected recording secretary.

It was decided that, if possible, an initiation would be held this fall for new members. A permanent meeting time of 5:00 o'clock every second Tuesday was passed on the subject which has the greatest interest to all the members was the discussion of a proposed inspection tour to the Norfolk Navy Yards. This tour would, if held, last about three days. It would be very interesting to the students to inspect the vast and complicated building facilities at Norfolk and a trip of this nature might also help them in making possible industrial contacts. The members of Pi Tau Sigma also voted to renew the drive for the establishment of a fund in the name of the late Professor E. S. Satterfield. This fund would be used to establish a Satterfield Room in the newly proposed mechanical engineering building. This room would serve as a chapter room for Pi Tau Sigma. Part of the money from the Satterfield Fund will be used to furnish a library of technical magazines for the convenience of mechanical engineering students. Another part of the fund will be allocated to establish a lending library composed of textbooks.

The present officers of Pi Tau Sigma are Greater Bureau president; Earl Frazier, vice president; Walter Lowensberg, an instructor in the mechanical engineering department, treasurer; Vance Lassiter, corresponding secretary; and Horace Adams, recording secretary. A picture of the last group of initiates of Pi Tau Sigma appears on page four.

F. H. Jeter Speaks To Vets Association

North Carolina's agricultural possibilities for post-war development were outlined in an address here last week by Frank H. Jeter, agricultural editor of State College. He spoke at the weekly meeting of the Veterans Association of State College in the College's YMCA auditorium.

Jeter told of the various phases of agricultural publications work. He said that through the weekly narrative reports of the county North Carolina has great opportunities in review each week. Food, said Jeter, is an essential war weapon, and the farmers of North Carolina have and are still doing a magnificent job in agricultural production. Scientific farming has made great strides during the war and research in agriculture will continue into the postwar era, he declared.

"Hybrid corn is one example of scientific development in this field and farmers of the state are gathering a larger harvest due to research in this field," he said. "Though North Carolina is lacking in natural resources, it is one of top-ranking states in the South. This was made possible by the sacrifices of our forefathers. Today North Carolina has great industries spread from the mountains in the Western part of the state to the coastal plain in the east."

Editor Jeter predicted complete mechanization of farming in the future. The veterans returning home will not have to go back to the antiquated methods used heretofore, he stated. Medical services will be extended to our rural areas as well as education and public utilities. Through the mutual understanding of leaders in banking, business, and agriculture, North Carolina can go forward to become one of the nation's foremost states.

Final Plans Made For Dad's Day Celebration

Agriculture Club Holds Meeting

The annual State College Dad's Day celebration will be held Saturday, October 20, and will be highlighted by the State-Wake Forest football clash which will be played that night. Heretofore, the perennial Golden Chain and Blue Key, student honor organizations, but was terminated because of the war and travel restrictions. This year the program is being revived and will be sponsored by the Veteran's Association, the Student Government, the YMCA, and the Inter-Fraternity Council.

Letters have been sent to dads of all State students inviting them to the annual occasion as guests of the college. The parents will register in the lobby of the YMCA on Saturday afternoon and will be requested to inspect the campus and visit the various dormitories and fraternity houses.

Plans are being made for a "Dutch" luncheon and dinner in the cafeteria to accommodate the visitors. The dining hall in the south portion of the west cafeteria will be reserved for dads and sons.

The recurrence of Dad's Day marks a return to campus prewar normalcy and it is hoped that other similar activities will regain favor in the near future.

At the second meeting of the Agriculture Club Tuesday night, further plans for the coming academic year were discussed and formulated. There was a record attendance of over one hundred students.

Regular meetings of the Club will be held at seven o'clock every Tuesday night in room 118-119 Withers Hall. Several films are to be shown at the next meeting.

Dr. L. D. Baver presented to the group the new organization of the Agriculture School in a very interesting talk. A report was given by Dr. A. D. Stuart on the possibilities of reorganizing the national honorary agriculture fraternity, Alpha Zeta. Plans are being made to reopen the fraternity at the beginning of the winter term.

A committee was appointed to plan for the construction of a float for the Ag Club in the State-Raleigh Day Parade which is to be held on November 21. Phillip Upchurch was appointed chairman for the Barnwarming, which is to be held the last of October. The budget for this year, '45-'46, was approved by the group.

Tom Hainip, president of the Ag Club, invited agricultural students to attend the next meeting.

THE TECHNICIAN

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By the Students



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State College

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What Are We To Do About It?

The health of the average Southerner is much below par of that of the average American. This is due largely to the poverty and ignorance so often found in the South. What are we as students of State College to do about this situation? In what ways, if any, can we help? The following is an extract from an article in the Southern Patriot, a magazine which has as its sole purpose the objective of ameliorating conditions in the South. This article offers a solution which, to us, seems very logical and important.

—One-half the Southern young men examined before draft boards were rejected as unfit for military service.

—Death rates in the South for tuberculosis, malaria, pellagra, influenza, pneumonia and venereal disease tower above those of the nation.

—Only half as many hospital beds are available per 1,000 persons in the South as in the rest of the country.

—In fifteen Southern counties in 1944, there were over 10,000 people per active physician.

—Negro life expectancy averages ten years shorter than whites.

These are but a few of the startling facts to be found in a recent issue of the Southern Patriot, published by the Southern Conference for Human Welfare in Nashville, which evaluates the South's state of health and offers a diagnosis and a cure.

One of the most tragic symptoms of unnecessary death, misery and ill health is the maternal mortality rate. Out of every 10,000 mothers, 36 in the South die in childbirth, compared to only 22 in the non-Southern states. A chart entitled, "Where Our Babies Are Born" points to the reason: in the South, 33.9% of the babies were born in a hospital under doctors care, compared to 76.9% outside the South. 43.3% were born in Southern homes under doctors care, while 21.6% were born in Northern homes; and 22.8% of the Southern mothers in childbirth had only the aid of midwives, compared to 1.5% outside the South.

The South's poverty is the basic cause of its ill health, diagnoses the Patriot. Southern people are sick because they are poorly paid, poorly fed, clad and housed, unable to afford medical care. Their poor communities are unable to afford medical facilities, and doctors cannot afford to practice where there are no modern hospitals, assured incomes or opportunities for research. These facts are particularly true of Southern rural areas.

Southern states spend as much per capita for health services as most of the other states in the nation, the Patriot points out. Yet this allotment is totally inadequate to meet the desperate health needs. And the states cannot afford to allocate more money, since Southern states do not have the wealth. Long years of domination by outside financial interests have drained the South's financial resources, so that in 1935, assessed value of taxable property in the South averaged only \$463 per person, while in nine northeastern states it amounted to \$1,370. The Patriot concludes that only outside assistance, in the form of federal aid, can meet the acute need.

Great progress has been made in lowering death rates for many diseases and in bringing medical care to many new thousands, according to the Patriot, which points to the expanded public health service, the medical care program of the Farm Security Administration, the health and safety program of the Tennessee Valley Authority, and the federal Emergency Maternal and Infant Care program. But these have only touched the surface.

The first need, according to Florida Senator Claude Pepper's Committee on Wartime Health and Education is a hospital and health center planning and construction program to cover the whole nation, embodied in legislation introduced by Senator Lister Hill of Alabama. This Hill-Burton Bill, S-191, authorizes federal aid to the states to survey, plan and build a coordinated network of small neighborhood and community health centers, rural and district hospitals, around a large base hospital and research center.

But facilities alone, urgent though they are, are not enough. The Patriot points out that the people must be able to afford to use them. The average cost of good medical care today is about \$150 per family per year, more than the average family, particularly in the South, can meet. The only solution is a method of payment by which the risks can be distributed among a substantial proportion of the people and the costs distributed over a long period of time. Many feel that an extension of social security benefits to include complete medical care as proposed in the Murray-Wagner-Dingell bill is the answer.

The Patriot calls for planning in the communities and states and points to the splendid example of North Carolina,

SHARPS and FLATS

By HOWIE KADEN

Top honors of the week go to Columbia for their latest release of a Benny Goodman classic. Originally issued about 1941, it features the vocalizing of Helen Forrest on one of Gershwin's top tunes, "The Man I Love." The old stand-by retains its wistful mood, but with the driving clarinet of Benny leading not boys, the record turns out to be sheer excitement. If I can remember correctly, Cootie Williams leads the trumpet section, and takes a beautiful solo. The arrangement is by Eddie Sauter, Goodman's ace. Goodman, Williams, Forrest, and Sauter—what a combination! Swell for dancing, listening, or what have you? The reverse side is "I Got Rhythm," and is played with-out a moment of relaxed pace. This, too, has the benefit of a great arrangement which provides the six display swing at its best. The piano solos are amply handled by Mel Powell, who was recently released from the Army. Mel had filled the piano spot with the late Major Glen Miller, and was awarded the "Downbeat" trophy for being the most outstanding pianist of 1944. Red Norvo, one of the top exponents of xylophone mastery has a great solo passage over the rhythmic guitar of Mike Bryan. Benny does his share of super-soloing, and moves from drums and Slam Stewart with his "singing" bass provide the rhythmic backing. Don't miss this one.

Another new release by Columbia is Claude Thornhill's "I Don't Know Why (I Just Do)" and "Buster's Last Stand." The former is a polished performance of another old favorite. The pianist-arranger teed off with a solo introduction until the band breaks in carrying the theme. Thornhill's obligation piano styling is featured throughout the recording in an easy light-façon that is typical of all his works. The first chorus is taken by the full band and is followed by the close-knit harmonizing of the Snowflakes who really make the most of the sentimental lyrics. "Buster's Last Stand" has that zest and abandon that is so typical of parts of this orchestra—that quality of spirited musicianship and yet complete relaxation is one of the reasons for

this aggregation being great. There is an outstanding trumpet solo, and Thornhill's keyboard artistry is well-represented.

Also on Columbia is Les Brown's theme song, "Leap Frog," coupled with "Show Me The Way To Go Home." "Leap Frog" has played its part in spreading the popularity of Les' band, and, although repetitious for the most part, is good.

Cab Calloway was listening to his six-year-old daughter, Constance, say her prayers. "Louder," said Cab, "I can hardly hear you." Little Constance looked up sternly and said, "You don't have to Daddy. No one is speaking to you." And speaking of Cab, his battle with another bandleader last August is having repercussions in court. A complaint was lodged against him because of it. Here is a snippet from the New York Times, Zansibar in New York, Claude Hopkins was suing for Cab's orchestra. When Cab told Hopkins to go on, Hopkins refused, and Cab started swinging. Being a former boxer, Cab hit a little too hard, hence the trouble.

From my grapevine comes the report that when Xavier Cugat led a company of 120 musicians and singers at the Hollywood Bowl recently—which, incidentally, drew 15,000 music lovers—his tiny Chicagoan pup, Tito, was in his breast-pocket throughout the performance.

Ginny Simms has a solid idea in the new show she's doing for Borden's. Besides the basic entertainment, the purpose of the show is to help returning vets re-establish themselves in show business. That was the underlying idea of her last show—but this time she won't stop with merely showcasing talent.

Each week, one veteran will be presented on the air and handed a three-week contract with radio station night club, theatre, or band as the follow-up.

Benny Goodman is going classical again. The King of Swing will appear as soloist with the Kansas City Philharmonic on October 27 for a concert. Plus "Concerto for Clarinet," Goodman will give with such numbers as "Concertina" by Weber, and "Dizzy Fingert" by Zex Confrey.

CAMPUS CENTRIFUGE

By BILL GATLIN

After having the promised support of the Raleigh Merchants' Bureau in staging another big edition of State College Raleigh Day, postponing it another year comes as a hard blow to many of the men who have already worked so hard preparing for it. Cancellation came as a result of a wire from the Richmond paper company which declared a mistake in the confirmation of an order by the Merchants' Bureau for red and white crepe paper. There is no chance to get such paper from any other source, since the merchants' organization has made a very thorough search.

Music Program

Each Wednesday night from 6:30 to 7:45 p.m., Miss Betty Jane Hicks presents a delightful program of both classical and popular recorded music in the north end of the YMCA. Last year, almost her entire audience consisted of our military personnel. This term a considerable number of civilians have been enjoying her programs. Possibly there are even more lovers of good music who would stop by if they knew of the program. Betty Jane prepares her programs with a free choice of the entire stock of records at Thiens, downtown.

She has shown an admirable spirit in continuing the music hour this term, since she is no longer enrolled as a coed. Last year, she was also author of the column "Chat with Pat" in The Technician. In the first part of next month, she will be leaving in order to try being a coed at the little college in Chapel Hill.

Shoe Shine

Three students have opened a shoe shine business in the basement of the YMCA. Their motto is "Best shine in Raleigh," and they are not kidding. The price is only a dime, which should be quite an attraction along with the convenient location. Hours are: 3-6 p.m. daily, Saturday 12-6, not open on Sunday. Give them a try!

where the Governor's Commission on Hospital and Medical Care, after an exhaustive survey of the state's health problem, recommended to the legislature: The expansion of the state medical school, a large appropriation to aid counties to build new hospitals, expansion of the state public health program, and hospital aid for low income groups.

Our goal, says the Patriot, must be to secure what Franklin D. Roosevelt outlined in his Economic Bill of Rights:

"The right to adequate medical care and the opportunity to achieve and enjoy good health"—for every person in the South, regardless of where he may live, regardless of his ability to pay, regardless of his color.

FACULTY FACTS



Col. W. W. Harrelson

Col. J. W. Harrelson, chancellor of N. C. State College, has guided the institution to its greatest period of service. The unassuming, straightforward administrative head of State College is determined that the college will continue to exert its fullest efforts in improving the standards of living and the productive capacity of the people of North Carolina through technological education and research.

Col. Harrelson was born into a farm family June 28, 1885, in the Double Shoals section of Cleveland County, the son of Mrs. Ellen Williams Harrelson and the late John H. Harrelson. He attended a rural grammar school in Cleveland County and the Piedmont High School at Lawdale.

He entered State College in 1905 and was graduated with the Bachelor of Engineering degree four years later as valedictorian of his class. He earned his spending money pressing clothes for fellow students, and in his senior year was night engineer at the college's power plant.

After his graduation in 1909, Harrelson remained at State College as an instructor in the Department of Mathematics. As the years passed, he became assistant professor, associate professor, professor, and, in 1933, head of the department. Meantime, he had served as director of the North Carolina Department of Conservation and Development from 1929 to 1933, and in this capacity awakened the state to the far-flung possibilities of its resources. He was appointed dean of administration at State College on July 2, 1934, under the Greater University consolidation program. (His title was changed to chancellor of State College and vice president of the Greater University in March of 1945.)

Col. Harrelson immediately inaugurated an era of progressive-ness that has placed State College well in the front ranks of the nation's technological institutions. Enrollment steadily advanced until 1942 when the student body exceeded 2,600. Col. Harrelson was a prime figure in the college's \$1,700,000 expansion program of 1938-39. He has liberalized student-faculty relations, and he has continually hammered home the ideal that North Carolina and the South need not merely educated men but educated gentlemen.

The military title came to Col. Harrelson through promotions in the United States Army. He passed a competitive examination for a commission in the Coast Artillery Corps in 1909. Promotions came steadily. On August 15, 1918, he became a major, and a month later was transferred to the personnel branch of the War Department's General Staff. He was commissioned as a lieutenant colonel in the Coast Artillery Reserve on August 27, 1919, when he was mustered out of service by the Army, and became a colonel on January 29, 1923. Col. Harrelson was transferred to the Field Artillery Reserve on December 2, 1927, and assigned to the command of the 316th Field Artillery of the Eighty-first Division.

In addition to his other activities, Col. Harrelson served as State College's graduate manager of athletics from 1911-17 and 1921-23, and was president of the General Alumni Association in 1914-15. He is an Episcopalian, a Democrat and a 32nd degree Mason. In 1941 he was given the honorary degree of Doctor of Law by Wake Forest College. He was married to Miss Elizabeth Connor of Wilson, daughter of the late Supreme Court Justice George W. Connor, on December 14, 1935.

Col. Harrelson is a member of the Raleigh Kiwanis Club, which he has headed as president, Reserve Officers Association, American Legion, and a half dozen honorary, professional and social fraternities. He is also a trustee of St. Augustine's College, Negro Episcopal institution in Raleigh.

During World War II, the State College chancellor served as deputy chief of the Army's Specialized Training Program in the Fourth Service Command area.

Although Col. Harrelson professes no special hobby, he seems interested in the future of air power. When questioned upon the subject, he said that he saw no reason why girls should not come to State and take any of the offered schools. He is only sorry that there are not facilities to accommodate co-eds on the campus.

The "open door policy" is practiced in the Chancellor's office. Any

GLEANINGS

Well, here we are again, all "loaded" up with dirt that has been circulating around these parts. First and foremost is the little tale about the modern edition of the James Brothers, namely Thood and Wornton. It seems that the lads gave the president of our Student Government a scare. Coupled with the fact that some poor freshman also received the same treatment at the hands of these desperados, we are beginning to wonder if it is still safe. It's all right, Bill. They don't make ammunition for that type of pistol.

It seems that The Technician staff is well represented in the lovelorn department. Our erstwhile editor, R. E. W., is having trouble with Eleanor, who seems to be ready for a stay at Purdue. Those Big Ten schools seem to want all the women, plus the football teams. Our managing editor, Dick Kennison, was seen at the game, pummeling his date every time the ball was put in play. Also at the game was Kat Klyman with a friend. After each play, their conversation ran something like this: "Gosh, he's good . . . and is he cute," quoth one. "He's cute, but so is that other one there. I think he's even cuter. Oh, there's Matilda. Look at the fellow she's with—and that hat. . . ." and the rain fell over Riddick Stadium that night.

Notice to all members of Chi Alpha Lambda. A meeting and initiation is being planned for the near future. All prospective members will be screened out, and those qualifying will be sent invitations. For further information, see Mahoney, Gaeta, or Kaden. Ah, in the good old summer term.

It seems there is a certain pin-up girl in the bowling alley who is crazy about a certain member of the Wolfpack. Something should definitely be done about the situation.

Now that rush week is over, the fraternities are check full of the young lads that are commonly known as pledges. The pledge pins shine brightly, and the floors of the respective houses are, at the time of this writing, probably shining, too. It's all right, fellows. The pledges lead wonderful lives at times.

Mott Pinnix has been seen around town with a young lady from the Angel Farm. We've just noticed that his pin isn't on that manly chest. Can there be any connection?

This past week end saw a few parties circulating around campus. The PIKA's were invaded by a crew from Charlotte, carrying full battle array of liquid refreshment with them. Needless to say, the refreshment refreshed a few refreshing-needed souls. The Sigma Pi's were also having a fine time on Saturday night. . . . Too bad that Fred Snyder was so hoarse from cheering (?). The Delta Sig's have been engaged in a few blow-outs, but nothing is ever heard about them. It sounds suspicious, what with everything being so quiet. Down on Oberlin Road, the SAM's were alternating between the pool room and the refreshments. The front room was locked for the night, and was being well heated (without the aid of steam).

Does any person have any knowledge of the mysterious P. O. Box No. 77. There came to our attention via a letter from the Woman's College in Greenville that a poor lass is dying from curiosity, and all because of Box No. 77. It has us wondering, also. Please let's hear about it.

"Nuff said for now. Will be back next week with additional gossip, and maybe the solution of "The Mystery of Box No. 77."

Notice

Phi Psi, textile fraternity, will meet October 18 at 2:00 p.m. in the chapter room at the Textile School. Guest speaker for the evening will be Prof. Elliot B. Grover, member of the Textile faculty, who has recently returned from an intensive inspection tour and study of the German textile industry.



"OLD IRONSIDES" stood up throughout the war

LIKE the famous old ship, your telephone has come through the war with colors flying. What other aid to modern living has been so dependable under all conditions and so free from mechanical troubles? During the war years, when so little new telephone apparatus could be made for the home front, even equipment made many years ago by Western Electric has served you faithfully and has been a national asset in time of war. Quality shows best when the going is tough.

Western Electric, supply unit of the Bell System, is now tackling its biggest peacetime job. Furnishing materials and equipment to meet the System's immediate needs—then to carry out the System's \$2,000,000,000 post-war construction program—promises record peacetime production and a level of employment higher than in the years just before the war.



Wolfpack Meets V. M. I. At 8:00 P. M.

Wolfpack Coaches Study T-Formation And Cadet Tactics



Head Coach Beattie Feathers, skipper of N. C. State College's Wolfpack, center, is shown as he ponders certain phases of the T-formation which the Techs will use as their plan of attack in the Southern Conference game with V. M. I.'s Cadets here in Riddick Stadium on Saturday night. Looking on are Coach Star Wood, left, and Line Coach Lytle Rich.

State Eleven Favored To Beat The Cadets

Football Statistics

Opponent	First Downs	N. C. State
Milligan	2	13
Univ. of Va.	12	1
Clemson	15	6
Catawba	14	11
Wake Forest	19	8
Wm. & Mary	17	21
Richmond	8	26
Miami	14	9
V.M.I.	6	6
	107	81

Opponent	Net Yards Gained Rushing	N. C. State
V.M.I.	95	128
Miami	168	168
Richmond	74	315
Wm. & Mary	166	133
Wake Forest	233	74
Clemson	20	25
Univ. of Va.	139	16
Milligan	50	207
Catawba	73	191
	1,018	1,155

Opponent	Net Yards Gained Passing	N. C. State
Milligan	3	80
Univ. of Va.	62	0
Clemson	20	23
Wake Forest	94	66
Wm. & Mary	195	156
Richmond	55	45
Miami	87	138
V.M.I.	27	49
Catawba	117	64
	660	621

Opponent	Number Passes Attempted	N. C. State
V.M.I.	15	5
Miami	22	14
Richmond	5	17
Wm. & Mary	36	6
Wake Forest	13	19
Clemson	5	12
Univ. of Va.	19	6
Milligan	19	12
Catawba	19	7
	137	98

Opponent	Number of Fumbles	N. C. State
Milligan	2	5
Univ. of Va.	8	1
Clemson	0	1
Wake Forest	3	0
Wm. & Mary	6	1
Richmond	1	1
Miami	4	4
V.M.I.	2	2
Catawba	2	4
	28	16

Opponent	Number of Passes Completed	N. C. State
Milligan	1	6
Univ. of Va.	2	0
Clemson	1	2
Wake Forest	8	6
Wm. & Mary	18	2
Richmond	4	6
Miami	7	7
V.M.I.	6	2
Catawba	10	2
	57	33

Opponent	Yards Gained by Runbacks of Kickoffs and Punts	N. C. State
V.M.I.	110	110
Miami	21	38
Richmond	60	57
Wm. & Mary	78	28
Wake Forest	31	154
Clemson	5	154
Univ. of Va. (inc.)	23	30
Milligan	58	24
Catawba	58	24
	467	441

Opponent	Fumbles (Of Both Teams) Recovered by	N. C. State
V.M.I.	2	2
Miami	2	3
Richmond	1	1
Wm. & Mary	1	6
Wake Forest	0	0
Clemson	1	1
Univ. of Va.	4	1
Milligan	5	2
Catawba	4	2
	20	20

In last week's game which Clemson won by the score of 13-0, the State College Wolfpack received few further injuries to supplement those suffered the week before at the hands of Virginia. Paul Gibson, first-string left end, was hurt late in the first half and was unable to return with the rest of the team at the beginning of last second half. Lum Edwards, the other first team end also saw little action due to a bad shoulder he received in the game with the Cavaliers. Charlie Richkus and Howard Turner, both first class passers, were able to play only a limited time and due to all of these injuries, plus many more, the whole team was slowed down and definitely not up to full strength.

This week, as last week, State plays a team that lost their last game. The V. M. I. Cadets lost their last game to the powerful Cavaliers of Virginia. The State boys will be out for their first Conference game of the present season as they have a record of one win and two losses. In last year's battle, the Wolfpack came out on the big end of a 21 game season, beating the Cadets for the first time since 1919. The two teams, however, have not met but seven times since that date when the Cadets had one of the South's powerhouse.

Coach Beattie Feathers did not buckle down to heavy drill, in preparation for the coming tilt until Tuesday afternoon. Coach Feathers isn't offering any excuses for the victory by Clemson, but merely states that "We were defeated by a better ball club. Clemson had too much for us," but he hastens to add, "We are looking forward to the V. M. I. game with a great deal of enthusiasm."

When the Cadets take the field at 8:00 o'clock tomorrow night, they will be able to call upon five of the men that played against the Red and White while State will probably have the services of eight men that took part in last year's encounter with the Fighting Cadets of V. M. I.

Beaux Arts Society Greets New Students

The first all meeting of the Beaux Arts Society of N. C. State College was held last Tuesday night in Daniels Hall. Fred Snyder, president of the society, called the meeting to order and welcomed the new students to the Architectural School. Snyder, a senior in architectural engineering, gave a short talk on the functions of the society and explained the advantages offered by the organization to the new students.

The principal aims of the society are to promote friendship on a lasting basis among the students, to advance architectural research and educational progress, and to foster faculty-student cooperation. It has been a policy of the body to organize social gatherings in the form of picnics and dinner parties and, at various times, to invite prominent men in the fields of architecture and architectural engineering to hold informal lectures and exhibitions here in the school. There were thirty-two students present at the first meeting, and those students who were interested in joining the society were requested to be present at the next meeting next Tuesday, October 16, at 7:30 in room 307, Daniels Hall.

Meeting of Student ASCE Chapter Held

The Student Chapter of the A. S. C. E. held its weekly meeting Tuesday night in the Civil Engineering building. M. B. Mizelle, president of the society, welcomed all new students and invited them to become members of the organization. Robert Boston made a brief talk on the duties and privileges of the new student members, and later in the professional chapter.

Future plans were made to have some guest speakers at the meetings and also some movies, if possible. Those present at the meeting enjoyed cigars, cigarettes, and candy mints, which were served to all the members. Five new students made applications to join the society, and any new Civil Engineering student who wishes to join will be welcomed.

Despite all of the State band's efforts to "Hold That Tiger," Beattie Feathers' charges could not overcome the injuries sustained in the Virginia game in time to be at top strength to play Clemson. The more experienced reserve strength which Coach Frank Howard had on his Tiger squad proved too much for the Wolfpack. Howard Turner played under a handicap, having his right hand still injured from the Virginia fracas. Nevertheless, Howard played a fine game and continued to prove himself to be a candidate for All-Southern honors for the second straight year. The State line looked weak at times, and the pass defense was not at all commendable. Coach Feathers will have to drill his charges a long way before he can even hope to tie the Wake Forest, which is still rated as having one of the best teams in the South. V.M.I. comes to town tomorrow night to oppose the Wolfpack, with the Staters definitely the favorites to win. Pooley Hubert's Cadets dropped a 40-14 game to Virginia last week, but shellacked Richmond two weeks ago. The game should, nevertheless, be a pretty close contest.

Duke and Wake Forest, who were both soundly whipped by Navy and Army last week, battle it out Saturday afternoon over at the Baptist's stadium for what will probably be the State title. Both teams will still be suffering from the bruises that they sustained in last week's encounters, but both will be gunning for each other. The last time that the two clubs played at Wake Forest, back in 1942, the Deacs won; and they will be out to present their Homecoming grads with another win. Nick Sacrinity and Rock Brinkley are nursing their injuries received at West Point, and should be in good shape by tomorrow. George Clark, Duke's star tailback who strained his back during a practice session ten days ago, will be ready to carry the mail for the Cameronmen, and it will be his presence in the Duke lineup which makes us predict a win for Duke by three touchdowns. Yes, you read right—by three touchdowns. Anyway, we'll find out how near we were right at the game tomorrow.

Carl Snavelly's Tar Heels, after an unimpressive victory over Virginia Tech last week, will face Penn, one of the most powerful teams in the East, in an intersectional tilt at Philadelphia. In our opinion, the Tar Heels will definitely be stepping out of their class—it's Penn by 28 points.

Leon Brogden, who brought Wilson several high school football championships, has taken over the reins at Wilmington, and with Tom Davis, ex-Duke great, as an assistant, he is attempting to give the coastal city citizens a winning team. Last week, Wilmington tied Rocky Mount, but despite this tie, are still rated as a leading candidate for the high school title. Tonight here in our own Riddick Stadium, Brogden and Davis will bring their Wilmington squad to Raleigh to oppose Lee Stone's Raleigh Purple Hurricane. It should be a mighty fine game; so plan to attend this game tonight.

The school spirit of the State students has been mighty low during this school year. With the Wolfpack playing their hearts out to win last week, the student body had just as well been at the movies, so far as cheering for the team is concerned. Boys, State has always been noted for its school spirit, and with an enrollment of 1,100, there should be better attendance and support of the team than that had at the Clemson game. Even in defeat, the State spirit always should be present. Let's show the team that we're behind them 100 per cent Saturday night. The kickoff will be at 8:00. Come on out to Riddick Stadium and show the team that we're all behind them—and remember, it's Wake Forest playing here next week.

Intramural competition begins Monday, with football and volleyball on the menu for this term. Third Bagwell won the football title last year, winning from Sigma Chi, the frat winner. N. Welch captured the volleyball title from Lambda Chi Alpha, the frat champion, last year. This year, the competition should be at an all-time high.

Last week, Mr. Doak predicted the most games correctly with nine incorrect choices. Ray Reeve missed eleven, Dillon, twelve, and Pate, thirteen. None of these records are any too commendable. Ray Reeve was the only one to pick Clemson over State; Mr. Doak was the only one of the four to pick Brown over Boston College; Rudy Pate picked an upset and won when Southwestern surprised Rice, 13-7; and Dillon was the only one to pick Arkansas over T.C.U. Numerous upsets caused large numbers of mis-predictions. George Fitzsimmons of 1610 St. Mary's St. won the two tickets to the Varsity this week. Get your predictions in to the Y desk by 12 noon Saturday to be eligible for the two tickets.

Here are this week's predictions:

Teams	Doak	Reeve	Pate	Dillon
V.M.I.-N. C. State	NCS	NCS	NCS	NCS
Bucknell-Temple	Tem.	Tem.	Tem.	Tem.
N.Y.U.-Boston College	BC	BC	BC	NYU
S.M.U.-Oklahoma A&M	SMU	A&M	A&M	A&M
West Va.-Syracuse	Syr.	Syr.	Syr.	W.Va.
South Carolina-Alabama	Ala.	Ala.	Ala.	Ark.
Arkansas-Baylor	Ark.	Ark.	Ark.	Ark.
California-U.C.L.A.	Cal.	Cal.	UCLA	Cal.
Col. of Pac.-St. Mary's	St.M.	St.M.	Col.	St.M.
Yale-Columbia	Yale	Col.	Yale	Col.

Intra-Mural Program To Start October 15th

The fall season of intramural sports will get underway Monday afternoon, October 15, it has been announced by J. P. Miller, director of the Intramural Sports program.

The first meeting of the Fraternity and Dormitory leagues, which make up the program, was held last Monday night. Some nineteen teams were represented at the meeting. All of the clubs will play tag football while the Sigma Nu fraternity team will volleyball only.

Only two sports, tag football and volleyball, will be played this fall while basketball, swimming and boxing will be featured this winter. The spring season will see football and track in the big role.

All of the football games will start everyday at 4:30 o'clock on

'Smokey Joe' Begins Twenty-fourth Year

Probably every student on the State College campus knows "Smokey," the Negro trainer for the football, baseball, and basketball teams. You can't miss him. He's right there at every type of game in that red sweater. In fact, he has seniority over the majority of the faculty members.

Calvin Simmons, "Smokey" to all who know him, was born right here in Wake County "back in them days" as he calls it. After working in the county and here in Raleigh for a number of years, he went to Detroit and learned how to rub down Charlie-horses and tape up the sprained joints of the athletes. He stayed there for seven and one-half years before he pulled up stakes and went to Brooklyn. While at Brooklyn he was trainer for the Dodgers. He stayed on this job for four and one-half years.

Finally, like all good Southerners, "Smokey" was attracted back to his old home. He came back to Raleigh and took the job as manager of the old Raleigh Capitals. In 1921, however, he took over as trainer for the Wolfpack. Now in his twenty-fourth year at N. C. State, "Smokey" is still going strong. When anyone mentions a former State College athlete, "Smokey" pops up with, "Yeah, he's my boy." In fact, all State athletes are "his boys." "Smokey" does more to earn his pay than just keep the boys in shape. At the next football game, notice how he will run down the sidelines when the Wolfpack gets deep into the opponent's territory and lay his fox foot on the goal line. He won't sweat that it has magnetic powers which pull the State boys across, but he will tell you that the majority of the time that he puts it in place, additional points go up on our side of the scoreboard.

When asked about his fox foot, "Smokey" replies that it was given to him after he lost his rabbit's foot. "Foxes are faster than rabbits, anyway," he says.

Football Broadcasts

WRAL—Duke vs. Wake Forest, Saturday at 2:15.
WPTF—Carolina vs. Pennsylvania, Saturday at 1:45.
WRAL—State vs. VMI, Saturday at 8:30.
WPTF—Football scores, Saturday at 6:05.
WRAL—Football scores, Saturday at 6:45.

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Sunday and Monday "GENTLEMAN JIM" with Errol Flynn and Alexis Smith

Tuesday "MUMMY'S CURSE" starring Lon Chaney and Peter Coe

Wednesday "HI BEAUTIFUL" Martha O'Driscoll and Noah Berry, Jr.

Thursday and Friday George Brent and Brenda Marshall in "YOU CAN'T ESCAPE FEAR"

Production Of Steam Turbines Expected To Be Doubled

Production of steam turbines, source of two-thirds of the nation's electric power, is expected to be doubled in postwar years by the General Electric Company, in comparison with the prewar average. This estimate was made here recently by Chester H. Lang, vice president and apparatus sales manager of General Electric, which has produced two-thirds of the country's present steam-turbine capacity.

The company has a backlog of over \$30,000,000 in turbine-generator orders, covering both new installations and replacement of obsolete machines. Mr. Lang said, "Full-scale peacetime production is expected to be reached by December in the General Electric turbine factories at Schenectady, Lynn, Mass., and Fitchburg, Mass. Many installations are planned for V-J Day, but only recently went into production when materials were released by the War Production Board.

The backlog of turbine orders at present includes over 40 machines with a total capacity in excess of one and one-half million kilowatts, C. S. Coggeshall, manager of General Electric's turbine division, said. Some of the machines will be new models. "Turbine developments are the results of years of research and experience," said Mr. Coggeshall. "Building the new units, we will add to our previous experience the knowledge gained through our war production and research."

The possibilities of atomic power replacing present generating equipment, such as steam turbines, in central power stations, railroads, or other businesses in which the generation or use of power is of extreme importance, were recently discussed by Harry A. Winne, vice president in charge of G-E engineering policies, and Dr. C. G. Suits, vice president and director of the Research Laboratory.

"Where we responsible for conducting the affairs of such organizations," they said, "we should go right ahead with our plans for the years to come on the basis of present day commercially available sources of energy: namely, coal, oil, and water power. Only as research and development proceed shall we learn the limitations and possible practical commercial applications of nuclear power."

The turbine-generator most recently completed at the G-E turbine factory in Schenectady is a 65,000-kilowatt plant for the Consolidated Edison Company. This hydrogen-cooled machine is now being installed in the New York City area.

Mr. Coggeshall also revealed that during the four war years General Electric's turbine production was nine times the average prewar yearly production. Factories were operated at Erie, Pa., and Syracuse, N. Y., in addition to the plants at Schenectady, Lynn, and Fitchburg.

The greatest expansion was in the marine turbine manufacturing facilities. The company's production volume of marine turbines, in terms of the total horsepower capacity of the machines, was greater than the equivalent figure during 40 years of land turbine manufacture. Approximately 75 per cent of the turbine horsepower now driving U. S. Navy fighting vessels is produced by machines made in General Electric's turbine factories or designed by the Company and made elsewhere.

Comparing land turbine generating efficiency during this war with that of the first World War, Mr. Coggeshall said that six times the power was produced during World War II with only twice the amount of coal. He pointed out that this greatly increased efficiency in the use of fuel was a great boon to the already over-burdened rail transportation facilities over which the coal would have been hauled.

Some of the new improvements and developments which are looked forward to by G-E turbine engineers were described. First, with the development of new alloys, higher pressures and higher temperatures can be used. General Electric has recently built turbines designed to operate at 1,000 degrees Fahrenheit and at pressures up to 2,400 pounds per square inch. This is the highest pressure ever used in an electric power generating station in the United States.

An ingenious way of getting higher efficiencies out of older machines is to superpose a new, high-pressure unit upon the original machine. The new turbine takes steam at high pressure and exhausts it into the old turbine at the pressure for which that machine was built. Thus, a great increase in power can be obtained from very little more coal.

CAPITOL
Friday and Saturday
"TRAIL OF THE BISON"
with Allan Lane
"Master Key," Chapter No. 4
Sunday
Buster Crab in
"GANGSTER DEN"
Monday and Tuesday
"OUT OF THIS WORLD"
starring Eddie Bracken - Veronica Lake
Cass Daily
Wednesday and Thursday
"SAY SOMETHING"
with Jinx Falkenberg
Friday and Saturday
Zane Grey's "WEST OF PECOS"
starring Robert McHugh
Chapter 5 of "Master Key"

SCHOLARSHIP (Continued from Page 1)

lege Tuesday for the final competition. The nominees, in addition to Miss Abernethy, were Johnny L. Young of Salisbury, Dorothy Morgan of Salisbury, and Bryce Haynes of Lexington.

The nominees were taken on a tour of the State College campus and honored at a luncheon at the Sir Walter Hotel Tuesday. Speakers at the luncheon, over which Chancellor J. W. Harrelson presided, included Lt.-Gov. L. Y. Ballentine, former Governor Broughton, Milton Erlanger, president of the B.V.D. Corporation and one of the co-founders of the trust fund, Dr. Frank P. Graham, president of the Greater University of North Carolina, Comptroller W. D. Carmichael, Jr., and Dean Campbell.

INTRAMURALS (Continued from Page 3)

- Fraternity League
- Alpha Lambda Tau
- Delta Sigma Phi
- Pi Kappa Alpha
- Sigma Alpha Mu
- Sigma Chi
- Sigma Nu
- Sigma Phi Epsilon
- Sigma Pi
- Dormitory League
- North Watauga
- South Watauga
- Gold
- Welch
- First Bagwell
- Second Bagwell
- Third Bagwell
- Lower Becton
- Upper Becton
- Berry
- First Alexander
- Second Alexander

Fraternity Averages

The fraternities at N. C. State maintained a scholastic average higher than the student body in the school year 1944-45. The non-fraternity group had a mean grade of 72.2, the student body, 72.7, and the fraternity group, 74.8. Last year the fraternity group had an average below the non-fraternity group but have raised their average from 74.1 to 74.8, whereas the non-fraternity group dropped from 75.9 to 72.2. Below is a chart showing the comparative figures.

Name of Fraternity	Numerical Standing	Number of Men	Grade '45	Grade '44	Rank '45	Rank '44
Sigma Alpha Mu	1	2	16	78.8	76.5	±3 ±1
Pi Kappa Phi	2	8	4	77.5	71.9	±2 ±2
Sigma Phi Epsilon	3	7	20	75.8	73	±2 ±2
Lambda Chi Alpha	4	5	8	75.6	74.5	±2 ±1
Pi Kappa Alpha	5	4	22	74.9	74.7	±1 ±1
Delta Sigma Phi	6	10	11	74.3	67.6	±1 ±1
Sigma Pi	7	6	15	73	74.2	±1 ±1
Sigma Chi	8	3	21	72.9	75.4	±1 ±1
Student Body Average				72.7		
Sigma Nu	9	9	4	71.3	68.4	-1 ±2
Alpha Lambda Tau	10	1	10	71.1	77	-1 ±1
Average of Non-Fraternity Group				72.2	75.9	
Average of Student Body				72.7	75.5	
Average of Fraternity Group				74.8	74.1	

"Rank" is determined by dividing the difference between the average of the Student Body (72.7) and the highest possible grade (100) into ten equal parts numbered from plus 1 to plus 10. Negative "Rank" extends below the school average by divisions or steps of the same size as those used for the positive "Rank."

Electrical Engineers Meet For First Time

The A. I. E. E. opened their 1945-46 year by electing the following officers: Chairman, Jack Chadwick; vice chairman, the Tall; secretary-treasurer, Posey Snow; representative to Engineering Council, George Watkins, and alternate to Engineering Council, Bob Prunty. Many former students have returned to the E. E. School and were welcomed back into the society.

Plans were discussed for the initiation of new students. At the next meeting, a smoker will be held and all students enrolled in the Electrical Department are invited to attend.

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This Year As Always
Your Fashion Headquarters Are
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Old-Timers Attend College Observance

W. J. Mathews of Goldsboro, left, the first student to register at State College on October 3, 1889, and L. T. Yarborough of Raleigh, a member of the college's first class, are shown as they attended the observance of the 56th anniversary of the founding of State College.

CASH PRIZES (Continued from Page 1)

of the Foundation, and the judgment of the directors of the Foundation or their nominees will be final. All entries and inquiries should be addressed to the Palmer Foundation, 216 East Third Street, Texarkana, Arkansas.

"This is an undertaking which I hope will contribute to the true peace for which we as a nation have been striving," Mr. Palmer said. "We have learned by now that peace is not something to be taken for granted but is a condition which can be maintained only by the unselfish devotion of many millions of people. Peace then, or the maintenance of peace, must begin at home in the relationship of one individual to another.

"The war which has just been concluded was brought about by national and racial selfishness and greed. It is true that we as a nation have been united in the winning of that war. Beyond this, however, our people probably are more disunited than ever before. They are divided into blocs and groups, all of which are seeking their own selfish ends irrespective of what is best for our citizenship as a whole. The work of our governing bodies is hampered by too many self-seeking pressure groups.

"It is understandable that objection would be raised to the teaching of any religious creed in America's public schools, but surely no sect or creed can take exception to instruction in the personal satisfaction and the individual and public benefits, that accrue from gauging one's conduct by the Golden Rule.

Dr. Brennecke has been praised as being one of the foremost experts in his field in the nation by industrialists, eminent engineers, Army authorities, and educators from New York University, Columbia University, Michigan State College, Pratt Institute, and other institutions, Dean Lampe stated.

The services of the new faculty member were secured through the cooperation of the North Carolina Engineering Foundation, Inc. which is supplementing State funds in aiding State College to obtain top-ranking men to perform its widespread functions in engineering education and research which is attempting to advance the College's School of Engineering to a prominent place of leadership among the technological schools in the nation.

Dean Lampe said that the addition of Dr. Brennecke was one in a series of movements designed to strengthen the college's teaching and research program, Inc. which is supplementing State funds in aiding State College to obtain top-ranking men to perform its widespread functions in engineering education and research which is attempting to advance the College's School of Engineering to a prominent place of leadership among the technological schools in the nation.

NOTICE!

A meeting of the Senior Class will be held Tuesday, October 16, at 12 noon in the YMCA. Two representatives to the Student Council will be elected. All seniors please bring a list of their activities since they have been at State. These lists will be used under the senior pictures in the Agreemack.

Helping Others To Help Themselves

* A factor that has prevented the farm income in the Carolinas from rising to its proper level in comparison with incomes of other groups, is that farmers have always purchased their farm supplies at retail prices, and then sold their produce at wholesale prices.

* More than 40,000 farmers in the Carolinas have found a solution to this problem through membership in the Farmers Cooperative Exchange—a farmer-owned and controlled manufacturing, purchasing, and marketing organization.

Farmers Cooperative Exchange
RALEIGH, NORTH CAROLINA

ANNIVERSARY (Continued from Page 1)

and the bulk of the 12 million dollars derived in taxes from the waterpower companies located within the State should be left here to aid in carrying on the vast functions of the State government, Clark declared.

"Porto Rico," he explained, "is an important producer of tobacco and exports large quantities of rum to this country. It might interest you to know that all excise taxes collected on Porto Rico products are returned 100 per cent to that country for its development. Our share of the tobacco tax would go a long way towards putting North Carolina on the map educationally."

Turning to the State's obligations in regard to educating its youth and appealing to the State's officialdom for aid to the colleges and schools, Clark, a member of the University's Board of Trustees, said:

"Our problem is to set up an economy that will enable us to carry out an educational program in keeping with the times, not only for the public schools but for higher education as well.

"Already this year the Woman's College at Greensboro has turned away 300 North Carolina girls for a lack of housing facilities. This should not be. Soot the foothold of soldiers, whose foot trod should not only a continent but the world, will be echoing along the walkways of this campus. Are they to be turned away, also? We have consulted the Governor, the Council of State, and the Trustees. What will be the answer?"

Dr. Graham, who introduced Clark as "one of the most useful citizens in the State," paid tribute to State College as a "great institution" and commended the work of Joseph Daniels and Clark for their work in helping to build the college to its present size.

Daniels, the only living charter member of the Watauga Club, an organization which worked for the establishment of State College, helped the college for its accomplishments and introduced Cedric Foster.

Expressing his pleasure of being able to participate in State College's 56th anniversary celebration, Foster, who delivers a daily news commentary over a nation-wide radio network called upon the audience of more than 1,500 persons "to tie the loose ends of government together, to present a united front in dealing with both domestic and international issues, and to coordinate the activities of all branches of the government, including the Army, Navy, and State Department, in such a manner that they will recognize the work of industrialists and scientists as well as all others."

Foster urged the State College students to work toward the country, which includes the "house of government and not allow them to flap in the breeze as they now are."

The famous news analyst, who recently flew 25,000 miles over the Pacific and cruised another 12,000 miles on the Yorkshire, said that he won this war in spite of ourselves, but he cautioned that unless all phases of governmental, political, economic, and social affairs are united in the future the next generation will inherit "another era of blood and ashes."

The world, Foster said, can be destroyed just as easily by failing to win "the Battle of the Peace" as it can be by the ravages of war. "We won't be able to survive unless we win the peace," he predicted.

Tossing aside the fear of a spread of Communism in this country, which includes one-sixth of the land area of the world, Foster asserted that "you can say no to an idea as long as you have a better idea to replace it." The people of America, he said, have had that idea in the past.

Chancellor Harrelson, who presided over the exercises, declared, in a brief speech:

"We believe that a student here receives the training appropriate for the ideal citizen of the State and Nation. His education is in the basic and applied sciences, thereby

FRATERNITIES (Continued from Page 1)

Jr., Winston-Salem, N. C.; Thomas F. Rhyme, Jr., Greensboro, N. C.; Silas Raymond Thompson, Jr., Charlotte, N. C.; D. B. Wincoff, Lexington, N. C.

Sigma Phi Epsilon
Otis Bain, Wilmington, N. C.; E. A. Brown, Salisbury, N. C.; J. E. Carr, Wilmington, N. C.; R. S. Cole, Greensboro, N. C.; B. E. Criger, Atlanta, Ga.; William Hales, Raleigh, N. C.; W. G. Head, Wilmington, N. C.; B. B. Higgins, Shelby, N. C.; L. M. Hoover, Lumberton, N. C.; B. F. Hoover, Lenoir, N. C.; H. A. Jones, Durham, N. C.; D. C. May, New Bern, N. C.; G. T. Ross, Goldville, S. C.; D. R. Swartz, Richmond, Va.; R. J. Teague, Siler City, N. C.; B. F. Wyatt, Sanford, N. C.

equipping him for service in the development of our natural resources. Military training is also given, which equips the graduate to serve the Nation in time of international conflict. The combination of training has given the State a national leadership and the Nation well qualified military officers and men.

"North Carolina now needs twice as many graduates of this institution as can be produced with the present facilities. For that reason, we submitted to the Advisory Budget Commission one year ago a plan for doubling the size of the college plant. We believe that the proposal is sound, that the State's needs warrant the increase recommended, and that the request is reasonable.

"This college is an investment for the economic and social development of North Carolina. The alumni and the College Administration are now actively engaged in programs to expand the College and its services to our State."

Chancellor Harrelson recognized W. J. Mathews of Goldsboro, the first student to register at State College on October 3, 1889, and L. T. Yarborough of Raleigh, a member of the college's first class. He also recognized David Ram of Goldsboro, a grandson of Mathews, who has just entered the college as a freshman.

An academic procession preceded the exercises in Pullen Hall. The procession, which formed at the Memorial Tower, was led by Col. Douglas N. McMillin, commanding officer of the State College Department of Military Science and Tactics. Music was provided by the College Orchestra, conducted by Major C. D. Kutschinski, the college's director of music.

The invocation and the benediction were spoken by the Rev. John M. Hinkle, chairman of the State College Wesley Foundation, an organization of Methodist students. Dr. L. R. Hinkle, chairman of the Public Lectures Committee and head of the Department of Modern Languages, was in charge of the program.

Notice

A smoker will be held by the A. I. E. E. Tuesday, October 16, 1945 at 7 p.m., in the social room of the State College Y. M. C. A. All E. E. students are invited to attend.

Notice

There will be a meeting of the A.I.Ch.E. Tuesday evening at 7:30 in room 113 Winston Hall. All Chemical Engineering students, both freshmen and upperclassmen, are urged to attend.

STATE
Friday and Saturday
On Stage
"RADIO MUSICAL JAMBOREE"
with the Stars of WFPT
On Screen
Brad Taylor and Jane Frazee in
"SWINGING ON A RAINBOW"
Late Show Saturday Night and Sunday through Wednesday
Zachary Scott and Betty Lee in
"THE SOUTHERNER"
Thursday Only
On Stage
West Raleigh Studio of Dance Presents
"FOOTLIGHT FANTASY"
On Screen
Robert Livingston in
"BIG BOVANZA"

Glee Club Elects Officers For 1945-46

At its regular Monday night practice the Glee Club elected the following officers to serve for the 1945-46 school year: Gilbert Gray was selected as president; L. B. Miller, Jr., vice president; Alton Wilson, secretary, and E. B. Harris, librarian.

The Glee Club has got off to a good start with some new and old members. There is plenty room for those who are interested. No experience is necessary. If you can carry a tune in the shower you can carry one in the Glee Club. Practices are only two hours a week, Monday and Wednesday night at 8 o'clock. Come on fellows let's have the best Glee Club in the state.

FOUNDATIONS (Continued from Page 1)

quire and hold and to sell, donate and otherwise dispose of all kinds of property, real, personal, and mixed; to pay in full or to supplement the salary or salaries of any person or persons engaged in any phase of education or research in agriculture at or through State College; to donate all or any part of the equipment, materials or other facilities incident to any such education or research. Thomas J. Fearall of Rocky Mount is president of this foundation.

The Dairy Foundation
The North Carolina Dairy Foundation, chartered December 23, 1944, has a total of \$40,000 in gifts so far. This foundation plans to aid State College in securing a larger group of highly-skilled teaching and research experts. Annual receipts from dairy products in North Carolina amount to about \$46,000,000, and leaders of the industry hope to increase the annual income to \$150,000,000 through the encouragement of small farmers to develop small herds of dairy cattle.

Dr. David Clark, Charlotte publisher and textile executive, who aided the farmers in formulating plans for the Foundation, said recently that farmers and dairymen are needing greater amounts of technical assistance from State College experts and proposed to assist the institution in enlarging its services by supplementing State funds in obtaining additional specialists. George S. Coble of Lexington is the president of the North Carolina Dairy Foundation.

Notice

The Thompkins Textile Society, which includes all textile students, will begin the year's activities by meeting in the YMCA building, Friday night, Oct. 12. The meeting will start at 7:30 o'clock. Dean Campbell will be present for the meeting and will give the opening address.

The "new" principle of jet propulsion dates back to the beginning of the Christian era. To be exact, the mechanical idea of it is 1,944 years old. The first demonstration of jet reaction was Hero's aeolipile—a hollow sphere caused to spin by steam escaping from two jets.

AMBASSADOR
Friday and Saturday
ERNE PYLE'S
"STORY OF G. I. JOE"
with BURGESS MEREDITH
Sunday, Monday and Tuesday
EDWARD G. ROBINSON and MARGARET O'BRIEN in
"OUR VINES HAVE TENDER GRAPE"
Wed., Thurs., Fri., and Sat.
"STATE FAIR"
In Technicolor
Starring
DICK HAYMES - VIVIAN BLANE
JEANNE CRAIN - DANA ANDREWS

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