

BEAT THE DUCK!

THE TECHNICIAN

of NORTH CAROLINA STATE COLLEGE

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STATE COLLEGE STATION, RALEIGH, N. C., NOVEMBER 9, 1945

Offices: 10 and 11 Tompkins Hall

State Invades Duke To Battle Blue Devils

Southern Conference Holds First Meeting

State Represented At Important Conference

One of the most constructive steps to be taken in the century-long struggle for patriotic Southerners to elevate this section to an accredited standing with the rest of the nation was made in the ball room of the Carolina Hotel last Saturday morning.

Leaders from every part of North Carolina met as an organizational committee to make this state a formal member of the strong and ambitious Southern Conference for Human Welfare. The organization has as its purpose to investigate, publicize, and act upon social and economic problems of the South in such areas as agriculture, business, labor, social security, health, race relations, suffrage, and civic and national affairs.

Only recently have many Americans ceased to look upon Southerners as belligerents or a defeated people. The armistice rulings that were imposed upon the South at the close of the Civil War were successfully designed to drain the South of its wealth. The subsequent wars in which the South has performed so gallantly in favor of the Union have won for the South a right to all the privileges and plenty for which America is famous. To officially ask for this right and to lend an intelligent guidance to the citizens of this section in their attempt to correct the failures of our system, this organization is dedicated.

The State College Student Council was invited to send a representative to the meeting, and the following boys were appointed: Bill Gatlin, president of the Student Council; Doug House, member of the Student Council and business manager of the Pinetum; and Bobby Wooten, member of the Student Council and editor of the Technician.

Dr. Frank Graham, president of the Greater University of North Carolina, made the opening address to the North Carolina representatives. In his talk, Dr. Graham stressed the point that the meeting of the Southern Conference for Human Welfare was not being held apologetically, nor were the representatives met there to deprecate the South, but rather to appreciate it. He also said that at long last the South has become an economic asset to the nation rather than an economic liability. Dr. Graham has been one of the foremost workers of the state in trying to establish a successful and ambitious North Carolina committee of the Southern Conference for Human Welfare.

The economic aims of the conference are based on the economic bill of rights as proclaimed by Franklin D. Roosevelt. This is as follows:

1. The right to a useful and remunerative job in the industries, or shops, or farms, or mines of the nation.
2. The right of every farmer to raise and sell his products at a return that will give him and his family a decent living.
3. The right of every business man, large and small, to trade in an atmosphere of freedom from unfair competition and domination by monopolies at home or abroad.
4. The right of every family to a decent home.
5. The right to adequate medical care and the opportunity to achieve and enjoy good health.
6. The right to adequate protection from the economic fears of old age, sickness, accident, and unemployment.
7. The right to a good education.

The membership of this organization "shall be open to all persons living in North Carolina sympathetic to the objectives and program of the Committee for North Carolina." It is to be hoped that many State College students will take advantage of this opportunity to help the South.

Orr, Mann, House, And Bowen Elected As YMCA Officers

Tuesday, November 6, 1945 in the YMCA lobby was the time and place of the YMCA election here at State College since he fell of 1943. War conditions, causing uncertainty about who would be in school has delayed the election until now.

In the election Tuesday, Edgar A. Orr, a junior in Chemical Engineering from Rocky Mount, N. C., was chosen President of the YMCA. He attended the YMCA-YWCA President's School at Columbia University-Union Seminary in New York City this past summer, and also the regional conference of the YMCA-YWCA at Hendersonville, N. C. From Newport, N. C. comes Leon A. Mann, Jr., a junior in Chemical Engineering, the new vice president of the Y. Mann is a member of the College debate team with national honors, and he also made a very favorable impression upon the delegates to the regional YMCA conference at Blue Ridge, N. C. this past summer. Doug House, from Beaufort, N. C., a junior in Forestry, defeated Tommie Garrison for the post of secretary. House is a "D.A." in Beeton, business manager of the Pinetum, and is on the Student Council this year. Earl "Pop" Bowen, from Plymouth, was chosen treasurer, winning over W.C. "Bill" Thomas. Pop has served as president of the Y since the fall of 1943. He is also active in Theta Tau and A.S.M.E.

It is the aim of the new officers to have a Y program suitable to the needs and wishes of the students. To make sure that the wishes of the students are known, an interest locator was filled out at the poll. It is also hoped that other students who did not vote will let the new officers know their wishes in reference to a Y program. The attitude of the students has been very cooperative so far this year as indicated by the donations received at registration. They have passed the \$1,500.00 mark, and this is well above the figures for the last few years. In 1945, \$742 was contributed; in 1944, \$1,115 was received, and in 1943 with 1,600 students, only \$1,332 was contributed. In the faculty campaign this year, \$698 have been turned in in incomplete reports. On these and other funds, the YMCA with the new student officers plan for a very successful and progressive year.

Smoker Held By Theta Tau Frat

Last Wednesday night, the members of Theta Tau, along with twenty-six of the members' friends in the engineering school, met in the North social room of the YMCA for an informal smoker. The meeting was opened by Dick Kennison, president of the organization, who asked that each one present stand in turn, and introduce himself to the group.

Following introductions, Dick gave the guests of the fraternity a short talk on the purposes, the aims, and the composition of the fraternity. "Theta Tau," as he explained, "is a national professional engineering fraternity composed of college students. The prerequisites for membership are not necessarily altogether of a scholastic nature, rather those students who show promises of becoming outstanding engineers are chosen for the honor of becoming Theta Taus. The qualifications that go into becoming outstanding engineers embrace social, academic, and personality traits that are essential in their various degrees of importance. The Fraternity of Theta Tau evaluates these qualifications of each man whom we have reason to believe will become outstanding engineers, and the men we choose are extended a bid to join us as Brothers of Theta Tau."

Dean J. Harold Lampe, guest (Continued on Page 4)

Chem. Engineers Hear Talks At Meeting

At 7:00 p.m. Tuesday evening, Bill Thomas rapped the gavel to call the A.I.Ch.E. to order. He presented two changes to the Institute constitution which were proposed by the executive committee. The changes will be voted on at the next meeting, November 20.

Thomas then introduced Jimmy Deas, a senior from Canton, N. C. Deas told about his work in the Solvay plant in Hopewell, Va. In Hopewell, Solvay makes sodium and ammonium nitrates from atmospheric nitrogen, dolomite, and sodium carbonate.

The faculty members present were then introduced. Mr. Seely, Prof. Bright, and Dr. Doody were introduced in order, and then the new Chemical Engineering department head, Dr. E. M. Schoenborn, was introduced. In a short response, Dr. Schoenborn congratulated the N. C. State College chapter of A.I.Ch.E. for having carried on during the war when many student units closed. In speaking of future plans, which are yet indefinite, he plans to carry on the work of the department with the aid of Dr. Randolph, who is in a position to be of much assistance due to long years of experience as a teacher of Chemical Engineering and years of practical experience. The curriculum in future years must be broadened to include courses which will humanize engineering developments, however, Dr. Schoenborn stated. The physical equipment of the State College Chemical Engineering department, and perhaps the building also, will be modernized to keep up with the rapid development in engineering, said Dr. Schoenborn.

Dr. E. E. Randolph then spoke to the group and urged the new students present to join the institute, for it is primarily a student organization. He explained of a few students by saying that they were probably studying, and he urged everyone to start reviewing now instead of waiting until the end of the term to do all the reviewing. The meeting adjourned, and the faculty and students enjoyed a general bull session.

State Flankman



LUM EDWARDS

Extra Money Can Be Gotten From Ceramics

By DR. A. F. GREAVES-WALKER

North Carolina has long been known to ceramic engineers and geologists the world over for its large and valuable deposits of the ceramic (non-metallic) minerals, many of which can form the basis of large, wealth producing industries. It is, therefore, strange that, except for the development of a flourishing structural clay products industry, North Carolinians have usually permitted these remarkable deposits either to be rapidly depleted by foreign corporations, which shipped the minerals to other states for processing into manufactured products, or remain undeveloped.

The deposits have been known for many years, in fact some of them were first advertised to the country and the world by Dr. Ebenezer Emmons, North Carolina's first State Geologist, in the 1850's. Almost all of them are located in the Piedmont Plateau or the mountains of Western North Carolina.

In this series of articles it is the intention of the author to describe the location of the deposits and enumerate the possible uses of the various minerals, with the hope that North Carolinians may be interested in developing new mineral industries during the post-war period. It is also hoped that high school graduates may become interested in the tremendous possibilities of the training offered in one of the nation's outstanding departments of Ceramic Engineering at North Carolina State College.

Rich Deposits
Approximately 300 different minerals are found in the State of which possibly 50 are now mined or have commercial possibilities. However, this series of articles will cover only those that offer the best opportunity for the development of industries within the state at present. (Continued on Page 4)

Wolfpack Determined To Play A Good Game

ASTP Program Now Officially Closed

The Army's Specialized Training Program at State College, the only remaining military program of its type in a Southern college, was discontinued last week after the institution had provided instruction for over 4,598 young soldiers during World War II.

Approximately 20 per cent of the State College ASTP graduates during the war went directly to Oak Ridge, Tenn., where they aided in the government's mammoth atomic bomb production project. Following a period of thorough training in electronics and allied subjects at the college, the Army students were prepared to fill key positions in advancing the scientific manipulations concerning atomic energy.

Col. Douglas N. McMillin, commanding officer of State College's Department of Military Science and Tactics, in announcing the cessation of the ASTP affairs at the institution, said that high-ranking military personnel, having the War Department's highest priority, beat the paths to the State College campus each time a new Army class was graduated to search out the most promising students to work on the world-famous Oak Ridge bomb project.

"We didn't know what the young men were going to do when they left us to go to Tennessee," Col. McMillin explained. "We only knew that some important activity was underway because of the priority which the Oak Ridge authorities had over our men. Our department was not informed of the work of our graduates until after the atomic secret was made public."

Syme Hall, large dormitory housing the ASTP students, was cleared of its occupants last yesterday, and the college served the soldiers their last meals in the school's dining halls last night. All of the enlisted men stationed at the college were sent to military posts at Fort Belvoir, Camp Swift, Camp Bowie, Camp Crowder, and Camp Butler.

Students who were not needed for atomic research were used in the Army's Signal Corps, the Engineers Corps, and other branches of the service, Col. McMillin said. The college military leader said that several of the men were wounded in combat and that others were killed in the service of their country.

In its Army, Navy, and defense training classes, State College provided instruction for 23,628 men and women to equip them to wage war against the enemy.

The college's Army training program was inaugurated in April of 1943 when the War Department authorized the establishment of a STAR unit, a screening division of the Army, and a total of 1,752 men were processed through various departments of the college in three months of operation of the unit. The STAR unit was replaced after three months by the regular ASTP which gave training on both basic and advanced engineering levels.

On July 1, 1944, the War Department authorized State College to establish an Army Specialized Training Reserve Program, offering college and military work for 17-year-old boys who were not affected by Selective Service regulations. During the later months of the activity, State College maintained the largest ASTP unit in the Fourth Service Command, and during the last year of its operation, the college had the only advanced engineering training post in the South.

Chancellor J. W. Harrelson of State College, who served for several months as deputy chief of the ASTP in the Fourth Service Command while he was on active duty as a colonel in the Army, said yesterday that the ASTP has been "very satisfactory to the college" and declared that "the cooperation on the part of the War Department has been excellent."

What are the Wolfpack's chances against the highly-rated Duke Blue Devils? That seems to be the topic of many conversations about the campus and throughout the state. Will the State boys be pushed about the field, or will they be a small David halting a mighty Goliath? No one can truly say; we can only know the answer after the final whistle is blown in Duke Stadium next Saturday afternoon.

Everyone familiar with the Wolfpack gridiron clubs knows that any team running up against them will get sixty minutes of battle. In the past, N. C. State teams have taken some trouncings at the hands of the Blue Devils. Football fans will never forget the scare that the 1938 Wolfpack gave Wallace Wade's unbeaten, untied, unscored on, Rose Bowl bound Blue Devils by pushing down to their one-yard line. The State boys did not have the punch to score, however, and that game is now history.

It should be of interest to State students and fans to know how the coaches and boys, themselves, feel about the approaching battle; so here's the dope:

Head Coach Beattie Feathers—"We will have to play above par to win. Duke has a strong team, and it is always stronger in November than in any other month in the season."

End Coach Star Wood—"We are not being deceived by any false illusions. Clarke and Knotts are gone, which leaves only seventy-five football men we'd like to have. Our chances with Duke depend entirely on mental alertness and desire, which manifests itself in physical aggressiveness. If our boys are willing to go for sixty minutes we will give Duke a good game."

Line Coach Lyle Rich—"I accented Duke against Georgia Tech last Saturday. They're big and rough; we'll have to play over our heads to beat them."

Left End Bob Courts—"If we get in there and play ball we have a good chance to win. We'll be at our best when we meet Duke."

Right Tackle and Co-Captain Bill Gibson—"If they lose several of their Navy stars, we have a good chance."

Left Guard Joe Saunders—"If we play 'heads-up' ball for sixty minutes and scrap 'em all the way the outcome should be very close."

Center John Bonner—"If we repeat the performance against Wake Forest, we have an even chance to beat Duke."

Right Guard and Co-Captain Tony Gaeta—"No matter what, we'll be in there pitching."

Right Tackle Jerry Turbyfill—"I'm a man of few words, so all I've got to say is—We'll give them a fight for their money."

Right End Lum Edwards—"If our boys are ready physically and mentally and Duke loses the three Navy men, I think our chances are as good as anyone's."

Blocking Back Bill Stanton—"We may not win, but we'll give 'em a fight. We'll let 'em know they've been in a ball game."

Tail Back Howard Turner—"We have a good chance of winning if we get in the right frame of mind. Football is won mentally."

Wing Back Charlie Richkus—"We aren't going over to Duke for nothing; we're going to raise a little hell."

Fullback Bobbie Worst—"We have as good a chance as any other team. Cooperation and hard blocking will mean victory for us." The team is hoping that State students will fill the stands in large numbers next Saturday and will yell to their vocal capacity. The Redcoat Band will be on hand to provide music and parade at the half and the cheerleaders will be there to lead the yells. Every student should have that school spirit that State College is known for, so let's all make the trip to Durham and show the world that we're behind our team.

Pi Tau Sigma Officers



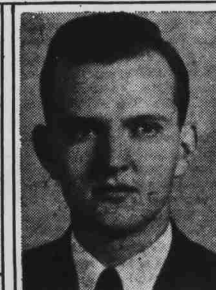
GROVER C. BURCHETTE, JR.



EARL D. FRAZIER



M. VANCE LASSITER, JR.



HORACE M. ADAMS

Shown above are the officers of Pi Tau Sigma, national, honorary, mechanical engineering fraternity at State. They are: Grover C. Burchette, Jr., of Winston-Salem, president; Earl D. Frazier of High Point, vice president; M. Vance Lassiter, Jr., of Richmond, Va., corresponding secretary; and Horace M. Adams of Winston-Salem, recording secretary.

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By the Students



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State College

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Extended Holidays

The Student Council is sponsoring a petition which asks the Faculty Council to extend the Christmas holidays from December 27 until January 3. As we go to press, this petition has already been signed by a majority of students and by a large number of the faculty, and by tomorrow it is expected that at least 1,100 of the 1,250 students in school and a majority of the faculty will have affixed their names to it.

This petition presents a very logical demand because of the fact that if the winter term begins as is scheduled, many of the students and faculty will have to leave their homes on Christmas Day so that they will be able to get here in time for registration. By deferring registration for a week, the college will also be able to help alleviate the crowded traveling conditions which immediately follow a holiday.

Another fact to be taken into consideration is the fact that, throughout the entire war, holidays have been kept to an absolute minimum. In normal times the students and faculty were given holidays on such days as Thanksgiving, Easter, and many other occasions. By having these breaks in their regular school work, they were able to relax a little and then go back to work with renewed energy and ambition. Since the beginning of the wartime schedule, many students and teachers, also, have been in school for as many as ten terms with no more than a two or three week holiday between terms. The effect of this is evidenced in the lower scholastic averages made by the students during the war.

There is one thing, however, that many students do not seem to realize. This is the fact that the extra work of Christmas holidays will have to be made up some times during the school year. The only logical thing to do would be to add another week at the end of the school year. If a majority of the students and faculty realize this fact and still vote for the petition, then the Faculty Council should either grant the extension or else abolish all student government or student participation in the college's affairs.

Attend Your Classes!

Since it is only by attending classes that the student can get the most out of college, it is very important for every student to make a conscientious effort to get to his classes. Printed below are the college regulations pertaining to classroom attendance. Read these and acquaint yourself thoroughly with them.

A student is expected to attend every meeting of each class. We operate on what is known as the credit-point system. In order to graduate, a student is required to earn a minimum number of quality points equal to the minimum number of credit hours required for graduation. For example, if a minimum of 198 terms credits are required for graduation, a student must earn a minimum of 198 quality points. A grade of "A" carries with it 3 quality points per credit hour, grade "B" carries 2 quality points, grade "C" one quality point, and grade "D" no quality points.

Any student who is absent from class three times without a satisfactory reason will lose one (1) quality point. That is, a point is lost for every third absence. This loss of points decreases the number of quality points he has earned toward a "C" average and toward graduation. Permission to be absent from class, or from any other College duty, must be obtained from the Dean of Students before the absence. Reason for classes missed must be given to the Dean of Students within one week immediately following the date of the last consecutive absence; otherwise, the absence is not excused.

A student will not be permitted to make up laboratory work or quizzes unless he presents to his teacher a statement from the Dean of Students, showing that his absence was excused. Parents sometimes write us like this: "It was necessary for my son to be at home over the week end." A statement of that kind does not constitute a satisfactory reason for a student's absence. We recognize parents' right to call their sons home at any time, but the administrative officers of the College reserve the right to determine whether the reason given is one which justifies his being excused from college duties. Our credit-point system is such that students who are making "A" or "B" in their studies can be away occasionally without loss to themselves except in quality points, but students who are barely maintaining a "C" grade cannot afford to be away from any college duty, except in extreme emergency.

With students entering college at different times during the year, as they are doing now, no attempt will be made to keep with how a student is classified, so far as his attendance is concerned.

Each term's attendance record will be kept independently. Any student who is absent ten (10) times in any term without a satisfactory reason will be automatically placed on probation and will sign a probation agreement. This probation agreement will continue to be in effect for the remainder of the term in which it occurs and for the following term.

If, while on probation, a student is absent from more than two (2) classes without a satisfactory reason, he may be required to withdraw from the College.

SHARPS & FLATS

Columbia's new issues for the week are among their finest. First and foremost is one by Benny Goodman, "Symphony." This is the perfect medium to display his band. This haunting song is one of those unusual hits that crop up every so often. Benny's peerless clarinet seems to inspire the band. His brilliant tone never fluctuates and is rich and full at all times. On the reverse side is "My Guy's Come Back," and serves to introduce the band's new vocalist, Lise Morrow. The tune originated in England, and was written by Mel Powell and Ray McKinley. It should sweep the country like wildfire.

Harry James comes through with a fine recording of "I Can't Begin to Tell You" from the Twentieth Century-Fox picture, "The Dolly Sisters." Harry gives off with a good chorus, and Ruth Haig sings

State College Campus Centrifuge

By BILL GATLIN

The seductive lyrics in a winning way. The reverse side, "Waitin' For the Train to Come In" has already hit the Hit Parade. In a catchy tempo, the arrangement develops into a great showpiece with Harry's horn leading the band. The disc gets into a swing groove until the train musically arrives. Kitty Kallen engineers a swell vocal.

The consensus of opinion is that this new release of Frank Sinatra's entitled "Nancy" will be a Sinatra classic. The disc is a story-telling lullaby, selling the charms of little Miss Nancy Sinatra, his daughter. The platter should draw a terrific response for two reasons: First, Frank's sentimental interpretation

(Continued on Page 4)

The only exceptions to this probation rule are those Juniors and Seniors who have averaged "B" or better and whose names are on the "B" average list, known as the "Dean's List," which is compiled by the Registrar during the summer and applies to the regular college year beginning in September and ending in June.

Unexcused absences occurring two days before and two days following regular College holidays as published in the College Calendar will carry a double loss of points. That is, each absence will count as two.

Unexcused absences on Saturday will carry a double loss of points. That is, each absence will count as two.

SUPPLEMENTARY INFORMATION CONCERNING CLASS ATTENDANCE

Checking Attendance: Each student is expected to check his attendance record every week or two during the term and, by all means, between the first day of examinations and the end of the term, after all absences are reported. Attendance records are kept in the Office of the Dean of Students, 101 Holladay Hall. The purpose of checking attendance is to call attention to errors and to make sure of not cutting too many classes.

Absences Reported or Recorded in Error: It often happens that a student is marked absent:

- (1) When he is only tardy. (When a student is tardy, at the end of class he should report to his teacher that he is present. Some teachers are willing to make corrections only if the student goes to them before he leaves class.)
- (2) When his name is on two rolls for the same course, or when his name remains on the class roll of a course he has been allowed to drop.
- (3) When he sits in another seat than that assigned to him.
- (4) When he stands on the wrong number in physical education class.
- (5) When he fails to notify his teacher that he has received permission to drop the course.
- (6) When he fails to take his drop slip to the Office of Dean of Students.
- (7) When an excuse fails to reach the Office of Dean of Students.
- (8) When the student's name is left off an excuse or is misspelled or incomplete, or when the date or hour is given incorrectly.
- (9) When he leaves the College without applying to the Dean of Students for a withdrawal slip.

Absences Not Considered in Error (and excusable only for satisfactory reasons):

- (1) Regardless of how late a student registers in any term (except his first term at this College), on the day he first attends class he is reported absent as of all the previous days the class has been held during the term.
- (2) Failure of the student to attend class before the course is officially dropped causes him to be marked absent. A course is not officially dropped until the student files a Roster Change Slip in accordance with the directions on the back of the slip.
- (3) Students are reported absent when they miss class assemblies, school assemblies, departmental assemblies, and freshman group meetings in the Official Bulletin, copies of which will be posted on the Blue Key bulletin board when such bulletins pertain to attendance.
- (4) When a student is tardy to any class for as many as three times, the teacher has the right to report him as having been absent on the day of the third tardiness.
- (5) When a student is so late to class that the teacher considers he has missed an important part of his work, the teacher may report him absent.
- (6) This College has no rule which permits a student to leave the classroom if the teacher is late. In cases where a student does leave, he is usually reported absent.
- (7) Although a student plans to withdraw from the College, he should continue attending class through the day the withdrawal is effective.
- (8) A student living on the campus or off the campus, but not in his own home, should report to the College Infirmary immediately upon becoming ill. The Infirmary will turn in an excuse for his class absences. Students will not be excused from class on the basis of "sickness" unless they do report to the College Infirmary.

This applies to students living in fraternity chapter houses and in private rooming houses.

Tardiness: See Absences Reported or Recorded in Error (1). See Absences Not Considered in Error: (4) and (5).

OPEN FORUM

(Editor's Note: We will gladly print all letters from students who have complaints or comments to make about campus activities. However, we can only print those letters which are signed.)

Fellow students:

A week ago last Wednesday a meeting of the sophomore class was held in order to elect officers to replace some who have left school. Out of a class of 230, only 40 sophomores attended the meeting. This was bad enough in itself, but to make matters worse the 40 who did attend voted to disregard the quorum rule and take it upon themselves to elect officers for the entire sophomore class. Accordingly, a vice president, a secretary-treasurer, and four Student Council Representatives were elected from among those present by a show of hands. The prevailing spirit of the election was not to try and put something over on the sophomore class, but instead the spirit of "Let's get this over with as soon as possible so we won't be bothered any more." This is the worst spirit in which an election can be held.

The main political organization present was the Veteran's Association. Out of the six officers elected, the vice president and three representatives are veterans. In my opinion, it is far from right for one organization to control so many offices.

However, it is not too late to remedy the wrong, if any wrong was done. The election should be declared illegal on account of the lack of a quorum and a re-election held. If the persons who were elected are truly the popular choices, then they will be re-elected, and if they are not, then they certainly should not even want to remain in office.

Furthermore the election should be held in a more efficient manner with a primary election, secret ballots, and representation on the student council in proportion to the number of students in each school. It is not very clear why, under the present system, there are as many representatives from the School of Education as from the School of Engineering. Things like this should be ironed out of the present system.

In my opinion, the cause of the entire mix-up in the election was the lack of spirit among the sophomores which caused five-sixths of the sophomore class to eat dinner or stay in their rooms at 12:00 o'clock on election day instead of coming to the meeting. Let's all be there next time.

EDGAR WILLIAMS.

GLEANINGS

Hats off to the Monogram Club for the swell dance Saturday. We understand the boys made out far better than expected and very strongly disapproved the statement of certain people that the boys weren't capable of putting on a successful dance. Let's hope all the future dances turn out as well.

From Withers Hall last Tuesday night came the soulful singing of the Ag Club. They were attempting "Home on the Range." Please, boys, let's do better or go back to the range.

This co-ed problem at the once mighty "He Man" N. C. State is becoming acute. Now they've ceased waiting to be asked for dates. They're asking fellows themselves. Have pity, you Wolverines!

Who is our flying Romeo that answers to Phil at the Sammy House and who went to New York City, slapped a ring on some unsuspecting lass, and then flew back? Nobody even missed him, it was done so fast. This modern age sure does things fast, aren't we?

You've all heard the old story about Dave. Well we have one about a Dave named Sewell who was told by a friend of his to get the friend's mother's car and come from Greensboro to Danville and pick him up. Dave it seems commandeered a couple of nice numbers to go with him and on the way tried to—well let's see—make some time. The result: a wreck, a \$13 fine, cost of the damage, missed seeing his friend, was two days late for school, and the girl's love. Sometimes it just don't pay, do it?

I wish I was a little fish frozen in the ice, And when the girls go skating by, it would Be so very nice. (Not bad, not bad, from a freshman.)

Did Fitzsimmons latest girl jump out of the frying pan into the fire? He was only introduced to her to take her mind off the boy she was engaged to, but "baby" look at them now.

Who were the characters at the dance who when asked if they brought a date came out with, "Do you think I'm crazy? It's too much trouble, pardon me while I go find a late date." What was that about woves, little girl? And we also hear that this same little girl gave 21 points and Duke over State. She sure believes in her woves.

All the girls are clamoring for introductions to the best looking man on the campus (we're making a concession)—Glenn Spruiell. They want to hold a contest—Who'll run Whom?

"Pee-Wee" Banks who represents one half of the Wild Life Course here at State College is quite an Ornithologist. Birds to you. He rises at 5 a.m. and walks out to Lake Raleigh studying "birds." Listen "Pee-Wee"—how about clearing up the pigeon problem right here at old State College. I'm tired of walking in it.

Charley Gallion, one of Prof. Williams' poultry boys, is beginning to cackle like an old hen. He is even getting chicken hurried and that's pretty good for an old man with gray hair.

"Don Juan" Jack Browne of Greenville was indeed surprised when he traveled to E.C.T.C. to only learn that his one and only—Dot—was away for the week end—without even telling him about her leaving. Jack missed the football game and Monogram's Dance to see his beloved Dot, who is quite famous for her many beaux. Won't somebody please tell Jack the score, because he still insists that she is as faithful as two bugs in a rug.

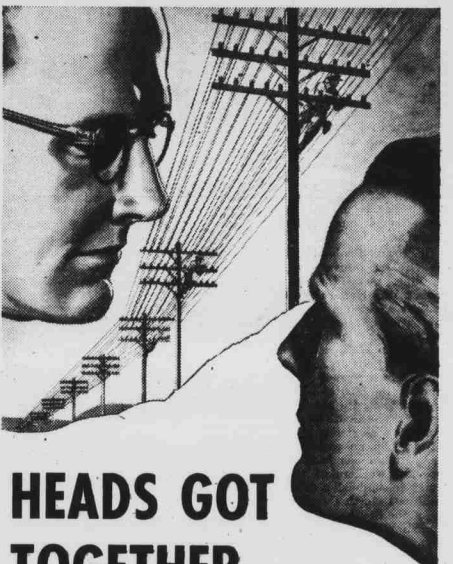
We hear from reliable sources that the president of the Snake Ranch, Tull, had a burr head on his hand this past week end, and didn't know what to do with it.

Letters To The Lonely Four

Here is the latest news concerning the "hubba hubba" boys. We have a little club and think we can add a bit of dirt for Gleanings every week, space permitting.

Here goes: Mel and Charly, two of the "hubba hubba" boys, finally exhausted their supply of logical refreshments (are you listening Anderson, so B.C., "Pouchie," and Bill also had a safe and sane week end. It must have been a large supply to feed five guys for six weeks. To make things worse Mel hasn't heard from Hermeyne in two weeks. As far as B.C. and "Pouchie" are concerned, "hubba hubba."

P.S. Anybody wanting to cut his neighbor's throat, just drop a letter to The Technician, c/o The Lonely Four.



HEADS GOT TOGETHER

RESULT: MORE TRANSCONTINENTAL TELEPHONE CIRCUITS

With wire scarce and wartime calls increasing, telephone engineers made existing pairs of long distance wires carry nearly four times as many calls as before. This was done through installation of additional carrier equipment, requiring closer spacing of the wires on the line and transpositions at shorter intervals.

Three pairs on the Southern Transcontinental Route were rearranged, and in a 430-mile section this had to be done while keeping the urgently needed wires in service all the time. To do this, new tools and new methods had to be devised in the laboratories and on the job.

This is another among many examples of how Bell System teamwork and engineering skills maintained telephone service under wartime conditions.

BELL TELEPHONE SYSTEM



Wolfpack Defeats Gobblers, 6-0

State's Scarpa



THE INTRAMURAL FRONT

Many interesting football and volleyball games have been reeled off during the past weeks. Only one of the volleyball games had to go into a third contest and several were forfeit games. Several of the teams that have victories in one league while forfeiting a game or games in another league had better get organized immediately because a forfeit game will count heavily when the totals are added up.

In a summary of the week's action, First Alexander put on the heat to dub South Watauga, 21-4, and 21-15, in two straight battles. The PiKa's added another mark in their win column by topping the Delta Sigs, 21-2, 21-19. Upper Beeton won out over Third Bagwell, 21-7 and 21-3. In the extra-game series, Second Alexander came fighting back in the two final games to win, 21-12, 21-16, after dropping the first game by a narrow 21-23 score.

Four teams won easy victories by forfeit. They were: Gold over North Watauga, Third Bagwell over Second Bagwell, A.L.T. over Sigma Pi's, and Welch over First Alexander.

One of the week's most thrilling gridiron classic was between the Pi KA's and the Sigma Pi. The

Georgia-Florida	Ga	Ga	Ga
Georgia Tech-Tulane	Tech	Tech	Tech
Iowa-Illinois	Ill	Ill	Ill
Indiana-Minnesota	Ind	Ind	Ind
Iowa State-Oklahoma	Okla	Okla	Okla
Nebraska-Kansas State	Neb	Neb	Neb
Kansas-Marquette	Kan	Marq	Marq
Kentucky-West Virginia	WVa	WVa	WVa
Mississippi State-LSU	LSU	MS	LSU
VMI-Maryland	Md	VMI	VMI
Great Lakes-Michigan State	GL	MS	GL
Michigan-Navy	Navy	Navy	Navy
Tennessee-Mississippi	Tenn	Tenn	Tenn
William & Mary-Carolina	UNC	UNC	UNC
Northwestern-Wisconsin	NW	Wis	NW
Notre Dame-Army	Army	Army	Army
Ohio State-Pitt	OS	OS	OS
Tulsa-Oklahoma A&M	Tulsa	A&M	Tulsa
Oregon State-Washington	Wash	Wash	Wash
Temple-Penn State	PS	Tem	Tem
Arkansas-Rice	Rice	Ark	Rice
Richmond-Virginia	Va	Va	Va
SMU-Texas A&M	SMU	A&M	A&M
TCU-Texas Tech	TCU	TCU	TCU
Oregon-Washington State	WS	WS	WS
Chattanooga-Vanderbilt	Vandy	Vandy	Vandy

Intramural Standings

As the midway mark is slowly coming into sight, here is the way the different teams in the Intramural Tag Football and Volleyball divisions stand.

The Sigma Pi's are leading in the Fraternity Football League with the PiKa's coming up in second place. The S.P.E.'s are heading the first section in volleyball while the PiKa's are playing tip-top ball to hold down the first position in the second section.

Welch is riding on the crest to lead the way in the first section of the Dormitory Football League, while Third Bagwell is leading the second section. On the volleyball side of the picture, Welch is again the leader in the first section. Lower Beeton is in the lead of the second section and seems to have things well under control.

The complete official standings of all the teams playing tag football and volleyball are listed below. The standings include all games through Monday afternoon, November 5.

Fraternity Tag Football

	W	L
Sigma Pi's	4	0
PiKa's	3	1
S.P.E.	2	1
Delta Sig	2	2
Sigma Chi	2	2
A.L.T.	0	3
S.A.M.	0	4

(Continued on Page 4)

Courts Scores Only Touchdown For Pack

Wolfpack Is Prepared For Blue Devil Battle

State College's Wolfpack, priming for the Southern Conference game with Duke's Blue Devils in Durham tomorrow afternoon, concentrated its attention during the week on pass defense and a punting scrimmage as Coach Beattie Feathers sought to fortify his charges for the toughest scrap on the State schedule.

All-Southern Howard Turner of Rocky Mount, who suffered a bruised back in the VPI tussle last Saturday, had recovered enough by Tuesday to lead the varsity against the Wolfpack reserves who ran Blue Devil plays. The reserves gave the varsity another look at Duke maneuvers Wednesday in the heaviest drill period of the week. A blackboard session took place on Wednesday night.

Jerry Turbyfill, a starting tackle, who was hospitalized with a slight cold and a leg injury since Sunday, was able to leave the college infirmary Tuesday and take part in the practice meeting. Charlie Rich-S.A.M.

(Continued on Page 4)

VPI State

First downs	6x	12
Number of rushes	37	47
Yards gained rushing	99	193
Yards lost rushing	17	31
Net yards rushing	82	162
Passes attempted	16	9
Passes completed	3	7
Yards gained passes	62y	109
Passes int. by opp.	2	1
Number of punts	11	10
Average yardage punts	39	37.7
Yards punts returned	34	98
Opp. fumbles covered	1	0
Yards lost on penalties	20	80

*Punts figured from line of scrimmage.
x—One on penalty.
y—Pass for 23 yards allowed on account interference.

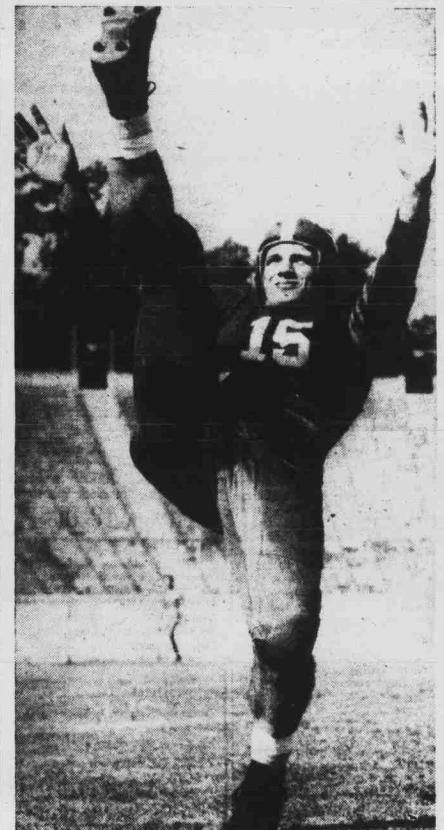
The Wolfpack made it the eighth win in the series between the VPI Gobblers and State College as they defeated the McEver Brothers combination last Saturday afternoon by the score of 6-0. In this series the Gobblers have won 15 victories compared to the eight wins for the State Wolfpack. Two games have ended in ties.

The only score in the battle was a perfect pass from Howard Turner to end Bobby Courts early in the second period. The throw was taken by Courts over his shoulder as he raced past the Gobbler safety man and took the ball on the six and crossed the goal line without having a hand laid on him. The game was played in sultry weather and, on the whole, was not very exciting.

State's scoring drive started from their own 46 very early in the second quarter. On the first play Turner tossed a short pass to Courts in the flat but he was quickly tackled for a very short gain. On the next play Lane Edwards took one of Turner's passes and made it a first down on the Gobbler 39 yard line. Then came the play that won the game. Turner faded back and threw to Courts who, having outrun the secondary, took the ball and stepped over the goal into paydirt territory.

State received the opening kickoff and started its drive from the 24. After two first downs the Wolfpack was in possession of the ball on their 47. On the next play to their 4 because of a clipping offense. Another exchange of punts gave State the ball on their 20 as the ball sailed over Turner's

(Continued on Page 4)



Gordon Carver, pictured above, will bear the brunt of the Duke attack when the Wolfpack tangles with the Blue Devils in Durham tomorrow afternoon.

AP Poll Gives State Team National Honors

Army and Notre Dame again are one-two in the weekly Associated Press poll to determine the country's 10 best college football teams and thus their meeting tomorrow in Yankee Stadium will be a virtual playoff for the national title.

The Cadets grabbed 86 of the first-place among the 101 ballots counted and were listed no lower than third on any ticket. Notre Dame, held to a tie by Navy on Saturday, snared only three first-place votes but was high enough on the remainder of the ballots to hold a narrow margin for the runner-up slot.

The leaders (with first-place votes in parentheses):

Army (86)	982
Notre Dame (3)	894
Alabama (4)	799
Navy (3)	702
St. Mary's (2)	486
Indiana (3)	445
Michigan	346
Ohio State	280
Pennsylvania	218
Columbia	167

Second ten: 11, Oklahoma A&M, 109; 12, Purdue, 99; 13, Holy Cross, 62; 14, Louisiana State, 42; 15, Virginia, 24; 16, Duke, 18; 17, Texas, 15; 18, Washington, 7; 19, Tulsa, 6; 20, Minnesota, 5.

Honorable mention: Penn State, 3; Mississippi State, North Carolina State, Wake Forest, and Southern California, all 2; Tulane, Georgia, North Carolina, Temple, all 1 each.

Tomorrow's the day—the all important date when the Wolfpack meet Duke in Durham. The State team, in our opinion, have the best opportunity of beating Duke that they've had in many years; but whether Coach Feathers' squad can win is very questionable. Duke has always held a firm grip over all State athletic teams for such a long time, that one wonders sometimes if State will ever lick Duke in any sport. Last spring, though, Coach Beattie Feathers' baseball team beat Coach Jack Coombs' Duke diamond team for the first time since 1938; so maybe Duke's 14-year football jinx may be broken tomorrow.

The Wolves' abilities cannot possibly be measured by their poor showing against Virginia Tech last Saturday. Coach Feathers used his second stringers for a great portion of the game, and most of the local's best plays were held back for the Durham encounter. Of course, the Duke scouts were present to get a line on the State attack, and Duke's basketball coach, Jerry Gerard, was refereeing the contest—what Duke won't know about State's weaknesses could be put in a tumbler. Nevertheless, you can rest assured that Coach Feathers will dig deep in his bag of tricks to give the Duksters a real game tomorrow. We personally won't predict a victory for the Wolfpack, but we definitely believe that a State win is highly possible.

William and Mary, who lost to State by a score of 20-6 two weeks ago, will engage the Carolina Tar Heels tomorrow at Norfolk, and the Indians will take the field in the role of the underdog. The game should be close, with Carolina our choice as winner by 7 points.

The Army Cadets will get their biggest test of the season when they take the field against the Fighting Irish of Notre Dame in New York. We like the Army boys by three TD's. . . . Coach Poohy Hubert's VMI Kaydets have made a very commendable showing this season. You remember the 21-14 loss they handed the Wolves here in mid-October, and more recently the 27-13 victory over the Vanderbilt Commodores in Nashville last week. On Thanksgiving Day, the VMI boys tangle with the VPI Gobblers in Roanoke. That should be a game! . . . The surprising team to us are the Gaels of St. Mary's. This west coast eleven has licked all opposition this year in a surprising manner. Last Saturday, the St. Mary's team upset the highly touted Trojans of Southern Cal by the surprising score of 26-0. The fact that they are not in the Pacific Coast Conference will keep the Gaels from being the west coast's representative in the Rose Bowl. Nevertheless, they have been mentioned frequently as a possible participant in the Sugar Bowl. . . . With the loss of George Clark and "Bear" Knigts, we doubt seriously if Duke would accept a bowl bid, even if they beat both State and Carolina. . . . At this time, Alabama and Washington appear to be the likely Rose Bowl teams. . . . And in our opinion, it's about time Virginia got a bowl bid. They should get through the season undefeated this year. Last year, the Wolfpack upset them for their only loss. The Cavaliers will clash with Carolina in Chapel Hill on December 1st.

Coach Tom Hines' cross-country team dropped a 27-31 meet to the Cherry Point Marines here last Saturday. Tomorrow at 11:00, the cadets will run the Duke cross-country team at Durham, and next week, the locals run against the Carolina team at Chapel Hill during the half-time of the Carolina-Wake Forest football game.

As for the predictions of tomorrow's scores, we'll accept your prediction of the final score of the State-Duke game anytime before 12 noon, Saturday. Turn in your score to the Y desk to become eligible for the \$3.00 cash prize. We understand that one of our feminine cheerleaders bet one of our students from Texas that State would lick Duke by 21 points. As for our prognosticators, Mr. Doak wouldn't pick a final score, but he felt that Duke would win. Ray Reeve believes that if State plays as they did against Wake Forest, they will beat Duke by a close score. Rudy Pate likes State by a score of 20-14. We are picking Duke by 21-6, although we are hoping that the Wolves will be "right" tomorrow, and that they pull an upset. In last week's predictions, J. B. Stinson and Donald Stuart tied for first place for the Varsity tickets with each missing only 6 games. Of the four regulars, Dillon and Ray Reeve missed 7 each, and Mr. Doak and Rudy Pate missed 9 each.

Here are this week's predictions:

Team	Doak	Reeve	Pate	Dillon
N. C. State-Duke	Duke	NCS	NCS	Duke
South Carolina-Miami	Miami	Miami	Miami	Miami
Baylor-Texas	Texas	Texas	Bay	Texas
Brown-Yale	Yale	Yale	Brown	Brown
California-Southern Cal.	USC	USC	USC	USC
VPI-Clemson	Clem	Clem	Clem	Clem
Columbia-Penn	Penn	Penn	Penn	Penn
Colgate-Cornell	Corn	Corn	Colg	Corn
Dartmouth-Princeton	Dart	Dart	Dart	Dart

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"THE WATER"
with Merle O'Brien and Franchot Tone

Tuesday
"THE FIGHTING LADY"
Navy Special on Carrier

Wednesday
Ann Gyrene in "MURDER IN THE BLUE ROOM"

Thursday and Friday
"TREE GROWS IN BROOKLYN"
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"HER HIGHEST AND THE BELLBOY"
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Hedy Lamarr - Robert Walker - June Allyson

Sunday, Monday and Tuesday
Bud Abbot and Lew Costello
— in —
"NAUGHTY NINETIES"

Wed., Thurs., Fri. and Sat.
"THOSE ENDEARING YOUNG CHARMS"
— Starring —
Robert Young and Loraine Day

GLEE CLUB NOTICE!

New rehearsal schedule: Mondays, Tuesday and Wednesdays at 6:45.

STATE

Friday and Saturday
"Invisible Man's Revenge"
with John Hall and Evelyn Ankers

Late Show Saturday Night and Sun., Mon., Tues. and Wed.
"UNCLE HARRY"
Starring
George Sanders - Geraldine Fitzgerald - Ella Raines

Thursday, Friday and Saturday
John Loder and June Dupres in
"The Brighton Strangler"

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

ANNOUNCEMENT OF NEW HOURS

12:30 to 2—Monday, Wednesday, Friday
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ICE CREAM, CAKES, DRINKS, CRACKERS, DOUGHNUTS
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STATE-VPI

(Continued from Page 3)
head into the end zone. At this point the State attack got under way, and the ball was moved from the State 20 to the Tech 23 where a pass was intercepted to thwart the drive. Tech could not make any headway and were forced to punt. The ball rolled dead on the Wolfpack 46 where the touchdown march started.

Later State was penalized half the distance to their goal, which proved to be 30 yards, because of a slugging penalty called on a Wolfpack player. The State team was then forced to punt and Tech returned the ball to the Wolfpack 46. At this point Tech made their first drive down the field as interference was called on Goehring as he was trying to knock down a pass. After two incomplete passes, center John Bonner intercepted the ball on the State 15 and ran it back to the 40 before he was finally stopped. State then made a first down but the half ended before anything else could be done.

The best drive that Tech was able to make the whole game came early in the third quarter. After Richkus kicked out of bounds on the Gobblers 22, the Virginia outfit really started to roll. The drive carried them from the 22 to the Wolfpack 18. After advancing to the State 19 on running plays the Gobblers decided to take to the air. After a one yard plunge three passes were thrown but all fell incomplete. At this stage of the game Richkus was removed from the contest but his injury was not serious. The rest of the game, for the most part, featured the Wolfpack bottling up the Gobblers in their own territory. Dorton, Klock, and Goehring were able to get loose for a few nice gains but the team was unable to put together enough offensive power to make a real scoring threat.

This was the second Southern Conference victory of the season for the home team and wound up the home schedule. State's offense was not quite up to par but the defense was very good and some of the players say that they are conserving their energies for the Blue Devils. We hope so.

WOLFPACK DEVILS

(Continued from Page 3)
kus, the only other ailing State grider, also participated in Tuesday's workout.

Coach Feathers, who had a speaking engagement with Charlotte's Quarterback Club, announced that all of his regulars will be able to operate against Coach Eddie Cameron's team tomorrow.
"Duke," the Wolfpack boss said, "usually gets stronger and stronger as the season progresses, and in November the Blue Devils usually reach their peak. We are expecting them to be plenty strong against us."

Meanwhile, Wolfpack supporters, pleased with the State performances against Wake Forest and William and Mary, believe that Coach Feathers' eleven has a good chance to hand Duke its first Wolfpack licking since the Techs shacked the Blue Devils, 6-0, in 1932. State's second last victory over the Blue Devils was recorded in 1931 when the Wolfpack whipped Wallace Wade's first Duke team, 14-0.

Vets Club Holds Dinner Meeting

The Veterans Association of North Carolina State College held their regular weekly meeting last Thursday night in the private dining room of the College Cafeteria. This was a business meeting and several items of interest to the Veterans were discussed. The report from the committee handling the War Fund Drive was very encouraging and the veterans are looking forward to bringing this drive to a very successful conclusion this week. If for any reason anyone has not been called on by a member of the veterans association and wishes to make a contribution to the war fund, they can do so at Dr. T. W. Wood's office, 104 Peele Hall.

Public Lecture To Be Heard Tonight

Dr. Albert S. Keister, head of the Department of Economics at the Woman's College in Greensboro, will deliver an address in Pullen Hall at State College on Friday, November 9, as the first of a new series of lectures at the college, it was announced recently by Dr. L. E. Hinkle, chairman of the State College Public Lectures Committee and head of the Department of Modern Languages.

Dr. Keister, former editor of The Southern Economic Journal and a former member of the faculties of Cornell and Chicago Universities, will speak on the subject, "The Disaster of Inflation; How It Can Be Prevented."

The lecturer, a noted economist, is a public panel member and arbitrator of the War Labor Board, a former editor of the National Resources Planning Board, and a former economist of the North Carolina State Tax Commission.
In announcing the appearance of Dr. Keister at State College, Dr. Hinkle said: "As a result of his previous appearance on the Public Lectures Program of this institution, he won the distinction of having his lecture acclaimed the most interesting of the series for that year. He is one of the few whom we have invited to the campus for a returned engagement."

The lecture will be open to the public.

SHARPS and FLATS

(Continued from Page 2)
of a song the first time; and secondly, the universal appeal that an outstanding children's song has for everyone. The coupling, Brahms' "Cradle Song" is, of course, one of the best loved numbers of all time. Alex Stordahl and orchestra supply the musical background which is consistent on Frank's recordings. Speaking of Sinatra, the Detroit Tigers had better watch out, because he has organized a softball team that threatens to invade professional baseball. The outfit, flush with their recent victory over the Hollywood Park Jockeys at Gilmore Stadium, Hollywood, before 5,000 fans, have announced that they're prepared to take on all comers. The team is outfitted with colorful uniforms. Embroidered across their bases is "How Many Times Have You Seen Anchors Aweigh?" Frank, who holds down the second base spot on the ball club has been having a field day at the plate. Laughs were provided at a recent practice session when the singing second baseman turned up with a uniform lettered "How Many Times Have You Slept Through Anchors Aweigh?"

From New York comes word that four "hipsters" clubs had their licenses revoked because too many people had been peddling dope around the places. The clubs, Downbeat, Three Deuces, Onyx, and Spotlight, all on the famous jazzline, 52nd St., have been the scene of jam sessions by the most famous jazzmen for years. The police blame these sessions on the consumption of dope by the performers and the audience.

Notice

All students enrolled in the Civil Engineering Department are urged to attend a meeting of the A.S.C.E. in room 203 in the Civil Engineering Building at 7:00, Tuesday, November 12.

Professor W. A. Babcock, professor of transportation engineering, is to be the speaker.
CAPITOL
Friday and Saturday "SPRING TIME IN TEXAS" with Jimmy Wakely
Chapter 8 of "MASTER KEY"
Sunday "SHADOWS OF DEATH" with Buster Crab
Monday and Tuesday James Cagney in "GREAT DAYS"
Wednesday and Thursday "ROUGHLY SPEAKING" starring Basil Russell
Friday and Saturday "FRONTIERS OF '49" with Wild Bill Elliott
Chapter 9 of "MASTER KEY"

The Technician staff joins with the entire student body in extending our deepest sympathy to Chancellor Harrelson upon the death of his mother.

INTRAMURAL STANDINGS

Table with columns for Fraternity Volleyball, Section I, S.P.E., S.A.M., A.L.T., Sigma Nu, Delta Sig, Section II, PIKA's, Sigma Chi, Sigma Nu, Delta Sig, Dormitory Tag Football, Section I, Welch, North Watauga, Gold, South Watauga, First Alexander, Second Alexander, Section II, Third Bagwell, Upper Becton, Lower Becton, Second Bagwell, First Bagwell, Dormitory Volleyball, Section I, Welch, Upper Becton, Third Bagwell, First Alexander, Second Alexander, Section II, Lower Becton, Gold, Second Alexander, North Watauga.

Ag Club Meeting

The bids for the Barn Warming, annual Ag Club dance, will be distributed at the next meeting on Tuesday night. This dance will be held in the gym November 17. The boys must come dressed formally in blue denim overalls, coveralls, or dungarees.
The various dormitories were placed upon committees to work on the dance. These were:
Decorations—Bagwell and Alexander.
Invitations—Watauga Hall.
Entertainments—Gold.
Refreshments—Fourth.
Gate—Becton.
Band—Berry.
Publicity—Welch.

The Ag Club is holding a smoker in the banquet room of the cafeteria November 16 after which they will decorate the gym.
At the meeting of the Ag Club last Tuesday night John Park made a short talk upon Parliamentary Procedure. Also several motions were brought before the group and discussed.

Attention, Textile Students

The regular meeting of the Tompkins Textile Society will be held in the YMCA on Tuesday, November 13th at 7:00 p.m. Along with an interesting program will be final plans for the Thanksgiving party.

GREAVES-WALKER

(Continued from Page 1)



DR. A. F. GREAVES-WALKER

ent, or in the near future. These minerals will be divided into groups as follows: kaolin, feldspar, and quartz; shales and clays; kyanite, talc, and pyrophyllite; mica and vermiculite; olivine-serpentine and spodumene; and barite, rutile-ilmenite, and beryl.
The following articles will deal with the kaolin-feldspar-quartz group.

Kaolin

This mineral is of considerable historical interest to North Carolinians. Long before the first white men landed in America the Cherokee Indians worked several deposits in the southwestern corner of the state, using the clay for painting their bodies. About ten years before the Revolution a sample reached the hands of Josiah Wedgwood, the world famous English potter.

Wedgwood had been searching the known world for kaolin in order that he might produce a ware equal to the Chinese porcelain. Upon receipt of the sample he sent an English geologist to North Carolina to obtain some of the material. Five tons of the crude kaolin were carried to the coast in saddle bags and shipped through Charleston, S. C. to England and from it Wedgwood made the first hard fired porcelain produced in that country.
Development of the deposits did not take place until years later because kaolin was discovered in England during the following year and British producers practically controlled the world markets until relatively recent times.

The name, kaolin, comes from two Chinese words (kao-ling) meaning "high ridge," originally a local term describing the region from which the Chinese obtained the mineral.

Kaolin is a white mineral derived from the weathering of feldspathic rocks and principally occurs in Yancey, Jackson, Swain, Mitchell and Macon counties. The largest deposits are found in the Spruce Pine district. It is composed of silica and alumina and usually contains traces of impurities such as iron, lime, and the alkalies.

As mined it contains considerable free quartz and mica. These are removed by flotation in modern beneficiation plants and the pure kaolin is fractionated for various purposes. The fine white mica is recovered and sold as a by-product. The residual kaolin mined in

North Carolina finds its principal use in white ceramic bodies such as dinnerware (china) and wall tile. It is also used to a lesser extent in the production of glass pots for producing optical glass and a few other purposes.

Up to the present time practically none has been used in manufactured products in this state. It has been shipped to the large whiteware producing centers in Ohio, West Virginia and New Jersey. In some years the value of these shipments has reached approximately a half million dollars.

Dinnerware

In the manufacture of dinnerware a mixture of kaolin, ball clay, feldspar, talc and flint is used. Feldspar and flint (ground quartz) are mined in close proximity to the kaolin. Ball clay is produced in neighboring Tennessee, and secondary kaolin, some of which is used with the residual kaolin of North Carolina, is mined in South Carolina, Georgia and Florida. The small quantity of talc used is produced in New York. It will be obvious that practically all the raw materials for a whiteware industry center in this state and yet only two relatively small plants producing dinnerware exist in the entire South. Practically every pound of material used in the plates, cups and saucers found on every table in North Carolina is either mined or processed in the state or passes through it by rail to plants in the North to be returned later in finished products.

It is estimated that the Southeastern states consume over \$4,000,000 worth of dinnerware a year, and this figure would probably be increased through the reduction in cost which would ensue if the high freight charges were largely eliminated. A plant located in the southern section of North Carolina could produce dinnerware at the lowest cost in the South and would have as a potential market the states of North Carolina, South Carolina, Georgia, Alabama, Mississippi, Louisiana, Florida, and parts of Virginia and Tennessee.

Depending on production, such a plant could cost from \$200,000 to \$1,000,000. The small plant would produce approximately 260,000 dozen equivalent pieces per year with a value of approximately \$230,000. It would employ about 75 persons. The million dollar plant could produce 2,500,000 dozen equivalent pieces per year with a value of approximately \$2,000,000 and employ about 750 persons.
The dinnerware industry requires some skilled and semi-skilled workers, but the number has been greatly reduced in recent years through the development of automatic jiggers and glazing machines, infra-red dryers and continuous tunnel kilns. North Carolina men and women could easily be trained to fill positions requiring skill such as glazing, setting, decorating, etc.

Wall and Floor Tile
The wall and floor tile industry also offers wonderful possibilities. Everybody is familiar with the

beautiful tile used in bathrooms and kitchens. The materials used are the same as for dinnerware but in different proportions. Almost all of the tiles used in the South comes from New Jersey, Ohio, Indiana and other Northern states. With the constant growth of the South, home building will go on indefinitely, and as industrialization increases more and more homes of the type using tile will be constructed.
A tile plant is a much simpler proposition than a dinnerware plant, and as a consequence the investment need not be more than \$100,000 for a modern plant of sufficient size to supply the Southeastern states.

Feldspar

Feldspar is the name assigned to a group of minerals consisting of several species, all silicates of alumina with one or more of the bases, such as potash, soda, lime, etc. The potash spar, microcline, and the soda spar, albite, are the principal species found in North Carolina, the microcline being most abundant.
The most important deposits of these minerals occur in a belt approximately 100 miles wide which parallels the Blue Ridge Mountains in parts of Macon, Jackson, Transylvania, Haywood, Buncombe, Yancey, Mitchell, Avery, Watauga, Ashe, McDowell, Caldwell, and Wilkes counties.

The feldspar occurs in dykes and is associated with mica and quartz. The reserves of material are large and practically inexhaustible when deposits requiring concentration are included.
The feldspar produced in North Carolina finds use in whiteware bodies and glazes, glasses, scouring soaps and powders, dentifrices, welding rod coatings, false teeth, and porcelain enamels.

As is the case with kaolin, practically none of the feldspars have been used in product manufacturing in North Carolina. The annual value of the crude and ground product shipped out of the state has been as high as \$1,800,000. This represented 75 per cent of all the feldspar used in the United States.

Scouring Soaps and Powders
Feldspar is a hard, tough rock and has excellent scouring qualities, but it does not scratch such materials as glass, china, silver, natural teeth, dentures, etc. It is, therefore, used in scouring soaps, powders, and dentifrices. As it can be purchased from the processors in any fineness required, the manufacture of these articles would merely be a mixing operation. A very small investment would, therefore, start a plant.

Porcelain Enamel
The use of porcelain enamel as a finish on kitchen utensils, refrigerators, stoves, sinks, bathtubs, and other bathroom fixtures, roofing tile and building materials, etc., is so general as to be commonplace. It is a glaze or glass coating on steel or cast iron, and its use has been growing by leaps and bounds. The industry has had slow

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speaker for the occasion, gave a brief informal talk on the subject, "The Advantages of Extra Curricula Activities." Men are chosen for professional jobs," he said, "not solely by the academic record they have made, but partially by the activities they have taken part in on the campus. Employers," he asserted, "are well aware of the advantages in training that a student gets from entering into the various campus activities.

growth in the South except in Tennessee.

Porcelain enamel can be applied to so many manufactured articles that it is surprising that plants producing enameled products have not been developed in North Carolina.

Enamels are composed of feldspar, flint and china clay or kaolin to the extent of 90 to 70 per cent of the raw batch. The balance consists of borax, soda ash, etc. Thus nearly three quarters of the total weight of raw materials required is produced in North Carolina.

The base of all porcelain enamel ware is sheet steel or cast iron and an enameling shop is, therefore, a unit of a metal fabricating plant. No doubt there are metal fabricating plants in North Carolina which on a small investment could expand their line by the addition of an enameling unit and in this way participate in the building boom which is in the offing, as well as the promised demand for such products as stoves, kitchen utensils, etc.

Quartz

Quartz is a by-product of the North Carolina feldspar mines. When finely ground it is called "flint." Flint is a component of dinnerware bodies and glazes, floor and wall tile bodies and glazes, art pottery bodies and glazes and porcelain enamels.

The feldspar producers of the state could supply all the flint necessary for the development of these industries in North Carolina.

Glass

North Carolina lacks deposits of high grade glass sand but has plenty of this mineral suitable for the products made of the green glass used for soft drink bottles. Establishment of a glass plant of this type does not appear to be advisable at this time.

Some of the valuable primary kaolin and feldspar deposits have already been exhausted, and these that remain are expendable. They can never be replaced and the day will come when North Carolina, originally the most richly endowed of all the states in these minerals, will become one of the "have-not" states.

It is not yet too late to cut down on the export of these minerals by following in the footsteps of the textile industry in establishing plants in close proximity to the raw materials. Richly endowed as it is, North Carolina can become one of the great ceramic producing centers of the nation.

Advertisement for James E. Thiem drawing supplies. Includes text: 'GLAD TO HAVE YOU BACK, FELLOWS!', 'The Best in Drawing Supplies', 'The Latest Hits by Your Favorite Bands', 'JAMES E. THIAM', 'EVERYTHING FOR THE OFFICE', '213 Fayetteville St., Raleigh, N. C.', 'Dial 2-2913', '108 Fayetteville St.' and 'Vogue Shop for Men'.

Advertisement for Student Supply Stores. Includes text: 'BACK IN STOCK', 'LOOSE LEAF NOTE BOOKS', 'And Most Everything Else That Is Essential For Carrying On Your School Work', 'STUDENT SUPPLY STORES', 'On The Campus', 'L. L. IVEY, Prop.'.

Advertisement for College Soda Shop. Includes text: 'For Those Moments of Relaxation During the Week-End', 'FOR REFRESHING FOUNTAIN DRINKS AND THOSE "PERSONAL" TETE-ET-TETES', 'WILMONT SODA SHOP', 'ALWAYS READY TO SERVE YOU!', 'Come In Between Classes for a Drink', 'ON THE COURT STONEY KEITH, Prop.'.

Advertisement for Coca-Cola. Includes text: 'The right note', 'Drink Coca-Cola', 'BOTTLED UNDER AUTHORITY OF THE COCA-COLA COMPANY BY THE CAPITAL COCA-COLA BOTTLING COMPANY, Inc.', 'Dial 2-1179 Raleigh, N. C.' and an illustration of a woman and a man.