

HAPPY HOLIDAYS!

THE TECHNICIAN

of NORTH CAROLINA STATE COLLEGE

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Many Bills Passed By Student Assembly

Delegates from 21 colleges made the Ninth North Carolina Student Legislative Assembly the most lively in many years, according to many people who attended many of the previous sessions. Although the motion to invite Negroes to attend future assemblies attracted most attention, many of the other motions were equally interesting.

Among the colleges represented at the Assembly were Carolina, East Carolina Teacher's College, Meredith, Campbell's, Wake Forest, St. Mary's, Pfeiffer, Western Carolina Teacher's College, Brevard, Appalachian State Teacher's College, Lenoir Rhyne, Louisiana, Warren Wilson, Atlantic Christian, Lees McRae, Duke, Queens, Davidson, and of course State. Carolina had the largest number of delegates, with 51 officially registered. East Carolina Teacher's College came with 28.

Immediately following the election of officers, the General Session was called to order, and a committee of five was appointed to escort Governor Cherry from his office to the House chamber to address the delegates. Wiley Taylor of Wake Forest introduced the governor, who stated in his opening remarks that he "considered it highly significant that the college students of the State should definitely interest themselves in governmental affairs." Governor Cherry then emphasized the value of the training in parliamentary practice that the Assembly offered. Secretary of State Thad Eure then discussed various phases of parliamentary law. The Secretary recommended that the Assembly idea be expanded to the other 47 states. Col. Harrelson, Chancellor of State College, welcomed the delegates to the Assembly. The Colonel recommended that more time be spent on State problems. Following the remarks by Col. Harrelson, Professor E. H. Paget, who founded the Assembly nine years ago, gave some of the history of the Assembly. The final speaker at the general session was the Rev. W. B. Bedford who gave some of the plans for extending the Assembly to the other states.

The most interesting and the most heated question of the Assembly was then launched by Bobby Glenn of Carolina who made the motion that Negroes be invited to attend the Student Assembly next year. After much discussion, it was moved that the bill be postponed until Saturday morning.

The House and Senate then waded into their calendars, and by the end of the night many resolutions had been considered and many acted upon.

(Continued on Page 3)

Vets, War Workers Offered Jobs In Pulp And Paper Industry

Returning war veterans, returning war workers and others desiring health out-door work are offered opportunity of speedy referral to jobs in the expanding pulp and paper industry in North Carolina. Dr. J. S. Dorton, State director of the United States Employment Service, announced.

Hundreds of steady jobs, in woods and mills, are now open and will increase during the fall and winter months. An intensive recruitment campaign, sponsored jointly by the USES and the pulp and paper industry, has been inaugurated to man this industry and will continue until the first of the year.

The campaign is designed to recruit workers now unemployed in large communities and getting them into rural mill communities where living conditions and environment are good. Both woods and mills jobs are open and a variety of types of work are available, either on a daily or piece-work basis.

Openings exist for both skilled and unskilled workers, including cutters, loaders, truck drivers, mechanics and woods helpers in the woods and, yardmen, operators and helpers on mixers, chippers and paper machines, as well as chemical technicians in the mills.

Led Campaign For Agricultural Progress



W. H. Woolard of Greenville, president of the Guaranty Bank and Trust Company, and W. A. Tripp of Greenville are the chairman and vice chairman, respectively, of the Pitt County Committee of the Agricultural Foundation. The committee has just completed a three-week drive in which \$11,162.83 was contributed to the Foundation and in which 241 life members joined the organization. Pitt County now has the largest number of Foundation members of any county in the state. The Agricultural Foundation was organized to boost rural living standards and to increase farming efficiency through a long-range program of education and research at and through N. C. State College.

Progress Made By State Ag Foundation

A total of \$11,162.83 has been donated to the Agricultural Foundation, and 241 life members have joined the organization in a three-week campaign conducted by the Foundation's Pitt County Committee, it was announced here today by R. D. Beam, director of foundations at N. C. State College.

Pitt County now has the largest membership in the state in the Foundation, a non-profit, educational corporation designed to boost rural living standards and to increase efficiency on the farms in North Carolina through a long-range program of education and research at and through State College.

The extensive fund-raising campaign, which advanced Pitt County to a place of leadership in Foundation activities, was directed by W. H. Woolard of Greenville, president of the Guaranty Bank and Trust Company and chairman of the Pitt County Agricultural Foundation Committee. W. A. Tripp of Greenville was vice chairman of the drive.

Director Beam, highly pleased with the response of Pitt's farmers, business men, and professional leaders to the Foundation's objectives, lauded the work of Chairman Woolard and his assistants, all of whom are interested in agricultural diversification and progress.

"Mr. Woolard and his fine committee accomplished a splendid job, and the Agricultural Foundation is grateful for their work," Beam declared. "They are all striving toward the improvement of the agricultural and business life of their progressive county and are also working for the promotion of farming in other areas of North Carolina."

Members of the Pitt County Committee of the Agricultural Foundation are as follows: John B. Webb, Greenville; B. L. Lange, Farmville; F. L. Blount, (Continued on Page 3)

Twenty-Four Students Put On Dean's List

Research Bulletin Written By Stone

A 57-page bulletin describing an extensive research project conducted in the Department of Ceramic Engineering at State College for the War Production Board has been published and may be obtained by citizens of the State for a small charge.

The bulletin was published by the College's Engineering Experiment Station and was written by Prof. Robert L. Stone of the Department of Ceramic Engineering and an investigator for the WPB's Office of Production Research and Development. Topic of the publication is *Factors Affecting the Firing Shrinkage of Dry-Pressed Steatite Bodies*.

The volume is fully illustrated with pictures, graphs and tables, and the research findings are told in technical terms.

Copies may be obtained by paying 35 cents and asking for the bulletin. Requests should be mailed to Dean J. H. Lampe, head of the School of Engineering at State College and director of the Engineering Experiment Station, or to Dr. W. C. Van Note, assistant director of the station.

It was announced recently by Dean Cloyd that there are now twenty-four juniors and seniors on the "Dean's list" for the 1945-46 school year. This list consists of those juniors and seniors who have a "B" or "A" average in their college work. These students have, by virtue of their high average, unlimited cuts. They still lose one credit point for each three cuts, but they are not put on probation for overcuts.

The students who made the "Dean's list" are: Alejandro O'Farrell, William Lowry Blow, Marvin Leigh Borum, Joe F. Briggs, Eustace R. Conway III, Edward N. Corby, William J. Daniel, Jackson F. Dunn, Carl E. Grigsby, Charles Hartsock, Jr., Norman Hodul, John S. Holloway, Joseph M. Monroe, James T. Moss, Jack E. Norwood, George W. Parker, Alfred M. Pfaff, James C. Sims, Harry C. Snavely, John B. Stinson, Jerome M. Weyne, Nelson M. White, Jr., Stephen C. Wilber, Jr., and Philip Yagolnitzer.

Editor Plans To Have Different Agomeck

A new and revised edition of the Agomeck is expected when the 1946 edition makes its appearance, announced Editor Harrison Wroten recently. Although the entire book has not been laid out, the general design is complete, and this edition is expected to be far better than anything in the past. It is expected to be out May 15, 1946.

Fifteen members have been hard at work for the past several weeks. The main problem of the staff is getting the students to come and have their pictures taken. About 1,200 pictures have been made so far.

A new feature of the Agomeck will be the arrangement of the snapshots. All organizations will have the snapshots of their parties, dances, and other events on their pages instead of having all the snapshots in one section. There will probably be twice as many snapshots in the new edition, and to get these snapshots in, societies and fraternities are requested to notify any member of the Agomeck staff, and they will be on hand to get the pictures.

A great part of the work on the Agomeck will be done in the Winter term. The final design and layout will be drawn up then.

Students who are interested in working on the Agomeck are requested to report to the Agomeck office on Wednesday night.

Hofmann Is Speaker At Forestry Club

"Alaska and the Aleutian Islands" was the subject which "Bunny" Hofmann, class of 1942 in Forestry, discussed at the meeting of the Forestry Club last Tuesday night. Mr. Hofmann spent 14 months in the Aleutian Islands as an Army fighter pilot and was discharged in November, 1945. He is now a graduate student in the Forestry School. Hofmann spoke on the geography of Alaska, some of its natural resources, and its people. He illustrated it with maps and photographs which he took while he was over there.

In discussing the future importance of Alaska as the "cross-roads of the air," Hofmann pointed out that all of the important air lanes from the United States to the Eastern Hemisphere cross Alaska. He told the Foresters that Alaska is one-third the size of the United States with a population approximately 25 per cent that of the United States. He said that because of the difficulty of travel in Alaska, transportation is chiefly by air and the principal means of communication is by radio. Mr. Hofmann said that recent discoveries of large oil fields in Alaska has greatly increased the economic value of that little known territory.

While speaking about the Aleutian Islands, Hofmann related some of his experiences while living and flying in the islands. He said that there is very little in the Aleutian Islands of economic value, their strategic position as a military outpost in the northern Pacific is of great value to the United States. In the discussion which followed the talk, Hofmann pointed out that the Aleutian Islands reach far west as the eastern edge of Australia and that many of the islands are closer to European capitals than to our own capital.



SCHEDULE OF FINAL EXAMINATIONS, FALL TERM, 1945-46

Classes Having a Recitation On:	Will Take Examinations On:
Tuesday at 10 o'clock	Friday, December 7-9 to 12 o'clock
Tuesday at 8 o'clock	Friday, December 7-2 to 5 o'clock
Monday at 11 o'clock	Saturday, December 8-9 to 12 o'clock
Monday at 2 o'clock	Saturday, December 8-2 to 5 o'clock
Tuesday at 9 o'clock	Monday, December 10-9 to 12 o'clock
Monday at 3 o'clock	Monday, December 10-2 to 5 o'clock
Monday at 9 o'clock	Tuesday, December 11-9 to 12 o'clock
12 o'clock classes	Tuesday, December 11-2 to 5 o'clock
Tuesday at 11 o'clock	Wednesday, December 12-9 to 12 o'clock
Monday at 8 o'clock	Wednesday, December 12-2 to 5 o'clock
Monday at 10 o'clock	Thursday, December 13-9 to 12 o'clock
Arranged Examinations	Thursday, December 13-2 to 5 o'clock

1. Examinations will begin Friday morning, December 7, at 9:00 a.m.
2. No examinations will be scheduled or held by any member of the faculty before Friday morning, December 7 (afternoon physical education classes excepted).
3. Examinations will be held only between the hours indicated.
4. The examinations will be held in the rooms where classes recite.
5. Courses having both recitation and laboratory hours should use the class hours for determining when the examination will be given.
6. In the schedule the term "Monday" applies to classes having their first meeting in the week on Monday, Wednesday, or Friday; the "Tuesday" applies to classes having their first meeting in the week on Tuesday, Thursday, or Saturday (i.e., a class holding its first meeting of the week on Wednesday at 10 o'clock will take the examinations as a Monday 10 o'clock class provided no student in the group has a regular class on Monday at that hour. If so, the examination will be an "arranged" examination).
7. Arranged examinations are for those examinations not provided for elsewhere in this schedule. Arranged examinations can be held during other hours in the examination week, and therefore no teacher should arrange for an examination if any student already has an examination that conflicts with the proposed arrangement.
8. Final examinations must be given in all courses. Any exceptions must be approved by the Dean or Director of Instruction.
9. All examinations will be given in accordance with this schedule.

Approved by the Faculty Council
November 9, 1945.

Former Student In College In England

More than 4,000 soldier-students from all 48 states are enrolled for the second term at Shrivvenham American University, including at least three from Wilmington, North Carolina.

Three hundred and sixty-nine courses in eight academic departments are offered at SAU, a GI school operated by the Army's Information and Education Division. The mission is to provide courses of college and university grade for troops awaiting return to the U. S. The faculty, picked from American universities and army ranks, totals 130 civilian educators and 100 officers and enlisted men.

From Wilmington, N. C., they include: Corporal Walter Craig, son of Mr. A. D. Craig of 1914 Church St.; Corporal James D. Chandler, son of Mr. A. B. Chandler of 17 Lake Forest Parkway, and Private First Class Joseph G. Howe, Jr., son of Lt. Colonel and Mrs. J. G. Howe of 614 Chestnut St.

Cpl. Chandler, a former student at North Carolina State College, comments that SAU "looks good." Pfc. Howe formerly attended the Citadel and Penn State.

More Discussion On Non-Metallic Minerals

By DR. A. F. GREAVES-WALKER
Commercial deposits of olivine have been located in only one area in the United States outside of North Carolina. These are on islands off the coast of the state of Washington.

As early as 1934 the staff of the Department of Ceramic Engineering of North Carolina State College, realizing that the composition of this mineral held promise of commercial possibilities, started research to determine its possible uses. The investigators at the College were joined later by others at the Bureau of Mines Station at Norris, Tennessee, and at the Norris and Muscle Shoals laboratories at the Tennessee Valley Authority.

While the original research was directed toward the production of refractories, all of the investigators considered the possibilities of the production of magnesium metal. Had funds been available in 1934 for research on the production of magnesium from olivine, North Carolina might have become one of the large producers of this lightest of commercial metals during the war, when the production capacity of the country increased from less than 4,000 tons to over 250,000 tons per year, the largest production of which came from plants financed by the Government.

Long before the war ended, the T.V.A. had successfully developed a process for producing magnesium from olivine and had a pilot plant operating at Muscle Shoals, by the time the process was perfected the Government plant construction program was completed and North Carolina's opportunity was lost.

Olivine is an iron-magnesium silicate of olive green color. It resembles green bottle glass. In North Carolina the deposits always contain chromite (chromium-ore) as an impurity, sometimes in pockets of considerable size. Serpentine is also present in the deposits.

Location of Deposits
The principal ore bodies in which olivine occurs are located in Mitchell, Yancey, Buncombe, Jackson, and Macon counties.

Practically the entire production in North Carolina has come from the Wray Mine in Yancey County; from the Cogdill Mine, near Balsam; and from the Gamet Mine, also near Balsam, Jackson County. It is estimated that the deposits in North Carolina contain from 50 to 100 million tons of olivine.

Uses
To date the uses of olivine have been limited to the production of refractories, magnesium sulphate (Epsom's Salts), and the metal magnesium, and it is unlikely they will be increased.

Crushed olivine is used by the steel companies as a "bottom" lining in furnaces. In the production of super-refractory brick and shapes, it is partially converted by heating to a high temperature into the mineral forsterite which has the exceeding high fusion point of approximately 3400 degrees F. This is accomplished by adding either magnesium or dolomite to finely crushed olivine.

Another process developed by the Bureau of Mines, produces the forsterite in a practically pure state by fusing olivine in an electric furnace. In this process ferrosilicon, which is used in the production of steel and other products, is a by-product. Forsterite is then molded into brick and shapes and fired.

In the production of magnesium the olivine is dissolved in hydrochloric acid, and the resulting magnesium chloride, after dehydration, is converted into the metal in electrolytic cells.

At the present time the lowest cost magnesium plants extract the metal from sea-water or salt brines. Sea-water contains about one-tenth of one per cent of the metal whereas olivine, the second richest commercial ore of magnesium, contains approximately 25 per cent.

Although the T.V.A. process is competitive with the sea-water process, there appears to be small possibility of its being used in the immediate future, because the present war plant production capacity is at least three times the anticipated consumption during the next few years. While a large proportion of these war plants use high cost processes and have been shut down, never to be operated again, the production of the low cost plants will be sufficient to take care of the post-war demand.

As magnesium is considerably lighter than aluminum and very strong and the cost reasonably low, its use in peace-time commerce will increase tremendously.

Serpentine
Some of the olivine deposits contain a large percentage of the mineral serpentine, another iron-magnesium mineral.

(Continued on Page 4)

THE TECHNICIAN

Published Weekly
By the Students



North Carolina
State College

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Hats Off to The Band

Working under certain handicaps, including inadequate facilities, inadequate time for rehearsals, and the greatest talent shortage in several years, the band has nevertheless turned in some very creditable performances this season, and justly deserves the student body's pride in its achievements.

The R.O.T.C. Band, which divides its allotted drill periods between the regular drill prescribed for all cadets and special military band drill, is rapidly developing into a crack military outfit. But the "Redcoat" Band is a "labor of love" organization, operating as an extra-curricular activity, involving the utmost in cooperative effort. The band's successful performances at the football games were the result of the willingness of its members to give up their Thursday nights and those precious Saturday afternoons to work out the musical programs and evolutions prescribed by their director for performance at the games.

Now that football is over, the popular "Redcoat" boys will continue their schedule of practices preparing a concert repertoire with a view to presenting a number of concerts during the winter and spring terms, and it is hoped that large numbers of students will turn out for these concerts and enjoy them as much as they did the band's colorful performances on the gridiron.

Where Credit Is Due

Before this term is over we would like to acknowledge and give credit to the football team and to Beattie Feathers for the wonderful job they have all done this fall.

First of all, as it should be, to the boys on the team: To you, fellows, our hats are off in appreciation of the long hours of work, sweat and grinding that go into the production of a football team. You have, as has always been the case here at State, been a colorful and spirited team and one that "never said die" no matter what the odds against you. You have proved yourselves sportsmen as well as athletes, and in this the entire college takes pride.

As for Beattie there is nothing much we can add, for actions speak louder than words. His actions last year as well as this prove that he is a capable and energetic coach. His ability is proved by the fact that he was chosen as one of three men to help coach the eastern team for the annual East-West Shrine game in San Francisco on New Years day.

We have in Feathers not only a capable coach, but a quiet and likeable man, and one who, with good material with which to work, can and will put State "on the map" in the football world.

To you Beattie, and to you fellows who have made him a success, our heartfelt thanks and the best of luck for next year. R. W. K.

Editorial Policy

From some of our editorials during this term some people have gotten the mistaken idea that we were either attacking them personally or we were attacking the group or organization to which they belonged just for the sake of having something to complain about. However, that is not the case.

We take the viewpoint that the Technician is the newspaper of and for the students at State College and, as such, it should try in all ways possible to protect and stand up for the best interests of the students.

We would like to explain now that if in carrying out what we consider our duties we have stepped on someone's toes unnecessarily or if we have hurt someone's feelings unnecessarily it was entirely unintentional. This is applicable, to mention two instances, to Dr. H. A. Fisher of the Athletic Department and to a few veterans. We think that Dr. Fisher is doing as good a job as could be expected under the circumstances and conditions with which he must contend. Some veterans seem to think that we were taking a poke at them when we linked them in connection with the unusual nine-week summer session which is being planned for next summer. We wish to state now that we would consider it indeed foolish to place blame on a group of students because of an action taken by the Faculty Council. We place blame only on the Faculty Council for such an action. R. E. W.

FACULTY FACTS



MALCOLM E. CAMPBELL

Since 1943, Malcolm E. Campbell has been dean of the Textile School at N. C. State. Dean Campbell is a Mason and a member of Delta Kappa Phi, textile fraternity. A native of New Bedford, Mass., high school, New Bedford Textile School and Clemson College, where he received his B.S. degree in 1920. At the New Bedford Textile School, he won the medal given annually by the National Association of Cotton Manufacturers to the outstanding student.

The dean resigned as research manager for the Textile Research Institute in New York to accept the State College position. He had general mill experience in four New Bedford textile plants and was employed at one time by the Firestone Tire and Rubber Co. in Akron, Ohio, in laboratory work and as fabric inspector.

From 1923 to 1926 he was instructor in textile engineering at Clemson, leaving to enter cotton quality research for the U. S. Department of Agriculture. He held this post until April, 1943, when he joined the Textile Research Institute Staff.

In 1935, the government sent him to Europe to investigate textile research in England, France, Italy, Switzerland, Germany and Czechoslovakia. Upon his return, he established government cotton research laboratories at Texas A. & M. College and organized expansion of laboratories at Clemson. As senior cotton technologist in Washington, he had charge of these laboratories and the fiber research laboratories in Washington and Stoneville, Miss.

Dean Campbell left his college post in October to conduct a three-month study of wartime textile developments and manufacturing processes in German colleges and universities. The dean, who is serving as a member of a joint commission sponsored by the War Department and the Technical Industrial Investigating Committee, will tour the educational institutions and the textile industries in Germany and other occupied countries and will inspect the methods of teaching, the arrangements of courses, and the curricula now in use in Europe. He will return to his duties at State College in January.

OPEN FORUM

State's Speakers

To The Editor:

Many students at State College have expressed their disapproval of the passing of the bill to provide for the "physical consolidation of the University of North Carolina," which would in effect move W. C. and State to Chapel Hill, and also the passing of the resolution to invite Negro colleges to attend the Assembly next year. Regardless of how one feels on either of these bills, he should realize that the proponents of both of these bills are adept at parliamentary procedure, and public speaking. In order to pass our own bills next year, and defeat those we do not favor, we too must become "adept at parliamentary procedure and public speaking." Many of our meetings provide just that opportunity. Let's seize it!

Sincerely yours,
LEON MANN.

Sincerely yours,
LEON MANN.

WHEREVER YOU GO FOR THE HOLIDAYS YOUR TRIP BEGINS WITH...YOUR BAGGAGE. SEND IT BY RAILWAY EXPRESS. RAILWAY EXPRESS AGENCY. NATION-WIDE RAIL-AIR SERVICE.

CAMPUS CENTRIFUGE

Student Legislature

The student legislature held in the chambers of the State Capital last weekend turned out a great success. Delegates from 21 North Carolina colleges attended this ninth annual meeting. Prof. Paget of the State College English department who founded the project has received commendations from many quarters. State College, which is the host at the annual affair, seems to be the least satisfied of all the participants.

The last minute ruling of the faculty council limiting the number of State's delegates to 25 definitely cramped the ability of this college to restrain the extremely liberal views of the generally radical students under the influence of Graham. With over 50 registered representatives, the smooth-working students of parliamentary practice from Carolina won the influential positions and proceeded to railroad their proposal through the assembly with amazing dispatch. By refusing to recognize speakers for the opposition and expertly using "calls for the previous question," these aspiring politicians rammed home considerable legislation that reflects upon the sources of student thought. At any rate students don't want a reputation for wanton radicalism—suggestive of a minor's desire for attention. Obvious sentiment on this campus is a little more conservative and respectful of realistic conditions.

The intention is not to rebuke the high-handed tactics of the liberal arts politicians, because such methods are employed by professionals, and those students are undoubtedly

very proud of themselves. Local complaints arise from the fact that State students were so grossly unprepared to match wits with the visitors. We were outmaneuvered because the faculty has neither made a provision to include in our training the mechanics of this important operation nor made an attempt to stimulate extra-curricular interest in such affairs or subjects.

The whole argument goes back to the question of whether technological students should expect some training in the humanities, as is expected of all "educated" men, or to cram for four years only in the sciences in order to learn a minimum of the material needed to be a dependable technician.

Since students here would have gone to some monetary if they were willing to give up four years of normal living in order to learn the subject of their choice, it is obvious that attempts to run this school on an assembly line basis are opposed by the students. Further consideration should be given to broadening the curricula at State College.

Students are often asked, "Did you come to college for an education or pleasure?" No apology need be given in answering, "both." Former students of State, who are now at Carolina, say that they transferred because Carolina has so much more to offer than State. Things like coeds, winning football teams, famous professors and departments, extensive student activities, democratic facilities, numerous electives of a wide choice, and adequate physical facilities are all legitimate appeals to entering students who must pay their own way.

SHARPS & FLATS

Before I go any further, I'd like to correct a little printer's error from my column of last week. As it was printed, Red Munroe was 32 years old. That's about ten years off, because his right age is 22... and single, girls. Keep the hopes up.

Let's get on to the records. One that has been out for a few weeks is "A Door Will Open" by Tommy Dorsey and his orchestra. On the reverse side is "Aren't You Glad You're You." I've neglected this side, and I'd like to make up for it now. The former is undoubtedly one of Dorsey's best in a long time. Done on the style of "I'll Never Smile Again" or "Stardust," it moves slowly along, with a lilting melody and good lyrics. Stuart Foster, although not Sinatra of the old band, does very well in delivering the song, and is ably backed by the Sentimentalists. The other side is very similar to "Swinging on a Star"—cute, but that's all.

Another new one is Sammy Kaye's "I Can't Begin to Tell You." The record is beautiful—both lyrics and melody. There is something to it that makes you want to listen. Nancy Norman handles the vocals. The reverse side is "What Makes the Sunset." Both are done in the Kaye style, with the title being announced before the melody begins.

The Rocky Mount boy, Kay Kyser, has come out with a new platter, "Coffee Time" and "Angel." The former is packed with musical entertainment. The vocals are taken

by Michael Douglas and Lucynn Polk. Douglas leads off with a dreamy vocal interpretation of the lyrics, and the orchestra sets a relaxed pace that is soft and vibrant throughout. The sax section really stands out here. The tempo picks up as Lucynn Polk delivers her chorus. The contrasting vocals add to the appeal of the number. The reverse side, "Angel," is a hit tune from "Yolanda and the Thief." The usual love lyric formula has been given a new twist by the writers. Vocalist Douglas has the benefit of some fine choral work by the Campus Kids on the chorus.

Here's something for the lovers of good jazz. In a sparkling new jazz album, jazzmaster Eddie Condon gathers a troupe of outstanding jazz musicians in a program of eight noted Gershwin compositions. The featured men are Jack Teagarden, Bobby Hackett, Billy Butterfield, Max Kaminsky, Johnny Blowers, and one vocal by Lee Wiley. Condon, one of the leading exponents of jazz as a distinctly American form of music, really directs; he organizes the arrangements without formalizing the innate spontaneity of the jazz form. Condon's guitar strums out on all selections. Other jazz greats are limelighted in specialties on various discs: Jack Teagarden slams his trombone around on "Someone to Watch Over Me," and turns in a lyric on "Somebody Loves Me." On the former, Bobby Hackett solos, and also on "The Man I Love" and "My One and Only." Lee Wiley, a favorite of Condon's associates, lends her husky indigo tones to "Someone to Watch Over Me" and "The Man I Love." The personnel varies on each of the sides; stellar jazz names (associated with Condon at various times in his colorful career) all have a finger in this jazz pie.

GLEANINGS

It has often been said that many a true word has been spoken through false teeth. Let's go!

We would like to advise some of our fellow students why Caroline Brunson is referred to as "Lucky." It seems that she has about 75 karats of something or other on her third finger of the left hand. Does anybody know what that means? She doesn't seem to. . . . And we hear that the only way that Snyder can get dates these days is to order pledges of the "Beaux Arts" society around, and we don't mean the male ones.

Freshman Johnny Johnson was out with his Meredith College girl friend exceptionally late the other night. Consequently, she was late for class the next morning. When she finally got to class, the professor asked, "What made you late—acute indigestion?" The snappy reply to this was, "No, a cute State College boy."

Talking about P&W girls, we hear that the biggest wolf of them all has changed her affections from one Sigma Pi to another boy. Lucky Sigma Pi! Is it true, Louise?



"More farm life for me!"

New developments, offering advantages of speed and economy in construction, are being fully used in our program for extending and improving farm telephone service. Among these are mechanical pole-hole diggers and plows for burying wire underground. Sturdier steel wire that permits longer spans will require fewer poles.

And we are experimenting with "power line carrier" to provide telephone service over rural electric lines. Radio, too, is being studied for use in connecting more isolated sections with telephone exchanges.

Providing more and better rural telephone service is part of the Bell System plans for constantly improving nation-wide communications service.

BELL TELEPHONE SYSTEM

GE CAMPUS NEWS

RESEARCH AND ENGINEERING KEEP GENERAL ELECTRIC YEARS AHEAD

YOUR FUTURE IN ELECTRONICS



ELECTRONICS, always just around the corner before the war, is now full grown. During the war itself, it was almost a million-dollar-a-day business at General Electric. Now G.E. has begun construction of "Electronics Park" near Syracuse, New York. Laid out like a college campus, this plant will have every modern facility for the design, development, and manufacture of electronics products. The men who work there will be part of one of the greatest industries to turn from war to peace.

Radar has its first peacetime appli-

cation in the G-E "Electronic Navigator," an instrument that tells a ship's pilot, not only his own position, but that of the ships, buoys, light-houses, land, and other objects around him, making possible a safe course even in darkness, rain, fog, or smoke.

By 1950 the nine television stations operating throughout the country will have become 150, predict G-E engineers. The maintenance of these stations affords great opportunity to men with a knowledge of basic principles of electrical engineering, electronics, and radar.

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GENERAL ELECTRIC

PIKA's And Welch Lead Intramural Sports For Term

All Campus

The All-Fraternity and All-Dormitory Volleyball and Football teams have been selected by the referees of the Intra-murals. The PIKA's, winners of the Campus Volleyball League, placed three players on the team while Welch, winner in the Dormitory League, also placed three men on the star selection.

The race for berths on the All-Fraternity Football nine was close

throughout. The PIKA's again topped the list with four men taking positions on the team. Third Bagwell and Welch were tied with three players each on the All-Star Dormitory team.

The complete list of All-Stars in all leagues are listed below, including the team each represents.

VOLLEYBALL

- All-Fraternity
Neal—PIKA
Lampke—PIKA
Lavin—PIKA
McLendon—SPE
Harpe—SPE
Trivitt—Sigma Chi
Wallner—utility—Sigma Chi
All-Dormitory
Hunt—Welch
McDuffie—Welch
Smith—Welch
Branscomb—Upper Becton
Hunt—Upper Becton
Johnson—Lower Becton
King—utility—Upper Becton

FOOTBALL

- All-Fraternity
Moss—Sigma Pi—RE
Thompson—Sigma Pi—RG
Freeman—PIKA—C
Smart—PIKA—LG
Cox—Sigma Chi—LE
Monroe—Sigma Pi—QB
Sewell—Sigma Chi—HB
Lampke—PIKA—HB
Neal—PIKA—FB
Castleberry—SPE—Utility
All-Dormitory
Hepler—Lower Becton—RE
Greene—South Watauga—RG
Williamson—Welch—C
Berry—Third Bagwell—LG
McKee—Third Bagwell—LE
Wilson—Welch—QB

STUDENT LEGIS.

(Continued from Page 1)

On Saturday morning the Assembly discussed the Carolina proposition of inviting students from the Negro colleges to attend the assembly next year. Finally by a vote of 110-48 the Assembly voted to invite the Negro colleges next year. Shortly after the general session was adjourned, the houses were called back into joint session to hear Secretary of State Eure discuss the motion regarding the inviting of the Negro delegates. The Secretary stated that he had no objections, if the Assembly wanted to invite Negro students, but he was fearful that "the issue which you have raised here may not be advantageous to them or to you." Many gifted speakers from Carolina spoke during the Saturday morning session. Speakers from Wake Forest, and State also spoke during the session.

Among the other resolutions passed at the Assembly were a bill to provide for the physical consolidation of the University of North Carolina, including a provision for getting W. C. State, and U.N.C. all on the same campus; a bill introduced by W.C. to abolish all "Jim Crow" laws in the State; a bill to give the governor the veto power; a bill to provide \$100,000,000 for a highway construction program; a bill to provide for a change in Veteran's allotments; a bill to provide for a popular vote election of the president; and a bill to allow the governor to succeed himself. Other bills which were presented by State students

- McDuffie—Welch—HB
Durante—North Watauga—HB
Raper—Third Bagwell—FB

Dillon's Dallyings

Word from over Wake Forest way has it that Head Coach Peabody Walker is on the way out! The Baptists are out for a better coach, and are apparently able to pay the limit for a big name coach. Henry Franke (pronounced Franca), who has had such successful teams at Tulsa for the past few years, has been named as one of the likely replacements for "Peabody," that is, if he is asked to resign. . . . With the resignation of Gene McEver as head football coach, we wonder if Davidson will have a team next year or not. . . . The 1945 Wolfpack was feted at a barbecue last Tuesday night. The coaches and the boys really deserved it. . . . From all indications, the 1946 Wolfpack will be the strongest team we've had here in several years. With some good substitutes available, Coach Feathers should produce a winner next year.

We had hoped to have the basketball schedule released today, but there are a few games which are still uncertain. As the schedule now stands, the Red Terrors open their regular schedule on January 5 with a game here against Maryland. State will play home and home engagements with Carolina, Duke, Wake Forest, Davidson, Maryland,

were: The adoption of the International log-rule as a standard for cruising timber in North Carolina, 18-year-old voting age, Better Health for School Children, disability benefits, and a world government bill.

and Clemson. Negotiations are also being made with VPI. A non-conference game with Virginia has also been scheduled. . . . A Southern Conference committee will meet next week in Durham to map plans for the forthcoming Southern Conference Basketball tournament, which will be played the first week in March. For the past twelve years, the tourney has been played in Raleigh Memorial Auditorium, but it is understood that Durham citizens are attempting to get it moved to the Duke Gym, in order that more people can be accommodated for the games. Each year, several hundred people are turned away, down at the Memorial Auditorium because of the lack of space. Nevertheless, we personally think that it would be fairer to leave the tourney here because the Auditorium is a neutral floor, and if the affair is moved to Duke Gym,

AG. FOUNDATIONS

(Continued from Page 1)

Bethel; W. N. Spruil, Greenville; M. B. Hodges, Grifton; and Dr. M. T. Frizzelle, Ayden.

Members of a committee which made the solicitations in the various communities of the county are: A. F. Rome, Ayden; E. G. Dupree, Greenville, Route 4; Bruce Strickland, Bell Arthur; W. F. Stokes, Stokes; F. L. Blount, Bethel; Dr. C. H. Spriggle, Grimesland; Jack Edwards, Greenville; L. C. Venters, Grimesland; G. H. Pittman, Falkland; Ben L. Lang, Farmville; George W. Davis, Farmville; L. E. Wainston, Farmville; R. A. Fountain, Fountain; John B. Webb, Greenville; W. I. Bisette, Grifton; Cecil Satterthwaite, Pactus; and D. Woodrow Worthington, Winterville.

The Blue Devils will have the advantage of playing in their home gym. The committee will take each factor into consideration when they name the site of the tourney at the meeting next week.

Winners in the Fraternity Volleyball League and the Dormitory Volleyball and Football leagues have been decided during the past week. The PIKA's walked off with the championship in the Fraternity Volleyball League with the Sig Eps and the Sigma Chi's ending the season in second and third place respectively.

Welch won both the dormitory football and volleyball championships to take over undisputed first place honors. Third Bagwell was second and Lower Becton was third in dormitory football. Lower Becton took over the runner-up position in volleyball while Upper Becton and Second Alexander tied for third place honors.

The championship game between the PIKA's and the Sig Eps was a thrilling battle as the PIKA's took the first game 21-5, dropped the second game 16-21, and won the deciding tilt 21-15. Welch won two sets as the victors were never in a hole at any time. At the same time the Sigma Chi's defeated the SAM's by the score of 19-21, 21-15, and 21-15.

Just two grid battles took place last week as Welch "slipped" over Third Bagwell 13-6. Wilson, McDuffie and Sanders were in the spotlight for the winners. Lower Becton scored a touchdown in the second and third quarters to shut out South Watauga, 13-0, to end up the week's football action.

The campus championship in football between the Sigma Pi's and Welch has yet to be played.

Welch Captures Both Crowns To Take Lead

As the first section of the 1945-46 intramural season came to an end, the PIKA's, with 310 points, and Welch, with 360 points, led their respective fields in the battle for the cup.

Both teams are far out in front of their respective brackets as the leading PIKA's nearest rival, the Sigma Pi, are 45 points behind

with a total of 265 points. Welch's nearest rival, Lower Becton, is over 100 points behind the leaders.

The total points of both football and volleyball leagues have been tabulated and the complete list is given below.

Fraternities	
Pi Kappa Alpha	310
Sigma Pi	265
Sigma Chi	230
Sigma Phi Epsilon	220
Sigma Alpha Mu	180
Delta Sigma Phi	165
Alpha Lambda Tau	90
Sigma Nu	55

Dormitories	
Welch	360
Lower Becton	245
Third Bagwell	235
South Watauga	180
Upper Becton	175
Gold	155
Second Alexander	150
North Watauga	145
First Bagwell	120
Second Bagwell	100
First Alexander	80

Radar and Radio Army
The Armed Services have trained more than 500,000 radar and radio technicians, operators and repairmen.

Bowl Games

Though all the participants in the bowl games to be played in January have not yet been decided upon, here are those who have already been signed to play.

- Rose Bowl—Alabama vs. Southern California or Washington State.
- Sugar Bowl—Oklahoma A&M vs. St. Mary's.
- Orange Bowl—Holy Cross vs. unannounced opponent.
- Cotton Bowl—Neither team announced.
- Sun Bowl—New Mexico vs. Denver.
- Oil Bowl—Neither team announced.

THE SATURDAY EVENING POST
ISSUE OF DECEMBER 29, 1945
ON SALE DEC. 29

THE 1945 ALL-AMERICAN FOOTBALL TEAM

Selected by
The 350 Members Of The American Football Coaches Association

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LONG HOURS
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350 COACHES TO VOTE

These are the men who have set the college football stage—discovered, trained and turned out the players. Together, they have witnessed all of the good football in the entire season.

NEW METHOD OF JUDGING

During each week of the football season,

coaches watched with trained eyes every man who looked like All-American material. Week after week, these reports were filed with the Association, tabulated, and returned to the coaches for a careful study and a final, end-of-season vote.

The men who made this final All-American team are the real "Who's Who" among the nation's players, as selected by the "Who's Who" among the men best qualified to judge.

Don't miss the American Football Coaches Association 1945 All-American Team in the December 29th issue of The Saturday Evening Post.

Again the Post pioneers in a sports venture of interest to millions of fans. To keep up with all that's new in the nation's favorite sports—be sure to read the Post every week.

THE SATURDAY EVENING POST
DECEMBER 29, 1945 10¢

AMBASSADOR

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"LOVE LETTERS"

— with —
Joseph Cotten - Jennifer Jones

Sunday - Monday - Tuesday
"SHE WOULDN'T SAY YES"

— with —
Roslin Russell

Wed. - Thurs. - Fri. - Sat.
Joan Crawford
— in —
"MILDRED PIERCE"

GREAVES-WALKER
(Continued from Page 1)

nestium silicate. This mineral contains combined water. When heated to a low temperature this water is dissociated and driven off. Research carried on during the war demon-

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Friday and Saturday
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"ROUGH RIDERS OF CHEYENNE"
Chapter 11 of "Master Key"

Sunday
"THE CONTENDER"
with Buster Crabbe

Monday and Tuesday
"FATAL WITNESS"
with Evelyn Ankers and Richard Fraser

Wednesday and Thursday
"YOU CAME ALONG"
Robert Casalonga - Elizabeth Scott

Friday and Saturday
Johnny Mac Brown in
"STRANGER FROM SANTE FE"
First Chapter of "Mystery River Best"

strated that calcined serpentine is very soluble in weak sulphuric acid, about 50 per cent of the contained magnesium oxide being removable in from 20 to 30 minutes. Evapora-

tion of the solution produces magnesium sulphate (Epsom's Salts). This process was used in a plant in California with a very low cost. Magnesium metal was also suc-

cessfully produced from serpentine during the war in a semi-commercial plant by a process similar to the T.V.A. olivine process, the principal difference being that the serpentine was calcined to drive off the combined water before being treated with weak hydrochloric acid. From the success of this process it is apparent that ore from olivine deposits which contain a large percentage of serpentine should also be calcined.

Spodumene

Spodumene is a lithium aluminum silicate and the commercial source of lithium metal and lithium compounds. The largest deposits of this mineral in the United States are located near King's Mountain where a flotation plant was constructed during the war by the Solvay Process Co. This plant played an important part in supplying lithium ore for Army, Navy, and industrial requirements at a time of critical shortage.

The spodumene crystals are disseminated through microcline feldspar which is finely crushed and carried through a flotation process in which the spodumene is concentrated into a fairly pure product.

Location of Deposits

The deposits of spodumene extend from a few miles south of Hiddenite, Alexander County, thru Catawba, Lincoln, Gaston, and Cleveland counties. The deposits in Alexander and Catawba counties are small. The largest and richest deposits are located on the outskirts of King's Mountain, Cleveland County.

The ore body in this section begins about 2 1/2 miles southwest of King's Mountain limits and extends northwestward for 2 1/2 miles. It is from this deposit the plant at King's Mountain obtains its ore.

Uses

The uses of lithium compounds were greatly expanded during the war. From spodumene is produced lithium metal, lithium chemicals, such as the carbonate and chloride, which are used in glass, porcelain enamels, whiteware glazes, and aluminum welding fluxes. Lithium chloride is one of the best known absorbents of moisture and is used in air conditioning equipment. The development of lithium stearate, a new lubricant, solved the lubrication problem for airplane engines. It will withstand temperatures from

90 degrees F. below zero up to 400 degrees F. above zero and promises an all purpose grease for civilian use.

Lithium hydride is an efficient source of hydrogen. On the addition of water this gas is rapidly generated, and the hydride was used to inflate Army observation and barrage balloons. The Navy made an interesting use of it in this connection in filling with hydrogen the small balloons attached to the antennae of midget radios installed in the rubber life rafts used by naval aviators when their planes crashed or were shot down. A small container of the hydride was dropped into the ocean, and the generated gas immediately filled the balloon which carried the antennae to a height that would give the radio a wide range.

FLASH!

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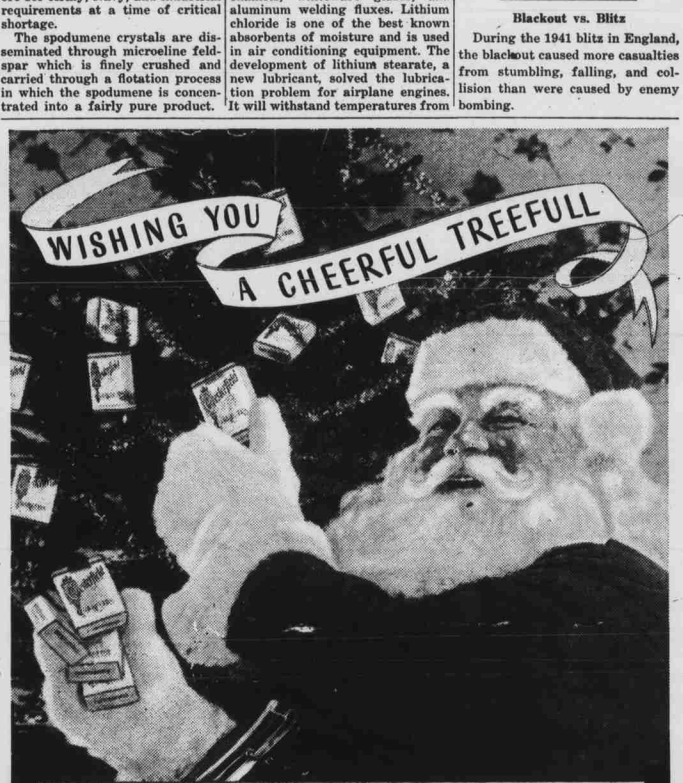
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