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N. C. State Has Excellent War Record

Navy's Great Diesel School Here Closes

Civilian Classes May Be Held If Demanded

State College's Navy Diesel Engineering School, assertedly the most modern and complete laboratory and school of its type in the world, will be closed on December 29 after training more than 1,300 naval officers for the operation and maintenance of Diesel-powered craft, according to an announcement made in Washington recently by the Navy Department.

Cessation of the Navy program at the college, a part of the sea service's sweeping demobilization plan affecting nearly 3,000,000 men, temporarily will leave idle more than \$2,000,000 worth of Diesel engines and other equipment used at the State College unit, one of two training centers of its kind in the entire nation. The other Diesel school is located at Cornell University.

Prof. Robert B. Rice, the college's director of Diesel engineering, said yesterday that the institution probably will provide Diesel training in the future to civilian students if a demand for such instruction exists. An experimental program with the engines may also be continued, Rice said.

Following the teaching of a course in Diesel engineering under sponsorship of the U. S. Office of Education on January 6, 1941, the Navy became interested in the work and assigned its first class of naval officers to the college on March 31, 1941—more than eight months prior to Pearl Harbor.

State Allocated Building

The school gradually expanded, and a building to shelter the growing facilities and personnel of the school became needed. Governor Broughton, envisioning the broad significance of the training to the Navy and the future war effort, allocated approximately \$200,000 from the State's Emergency Fund to construct a suitable building for the school. The three-story structure, located on the southwest side of the Court of Ceres, was dedicated on May 26, 1944.

The chief responsibility of supplying the Navy during the war with reserve engineering officers rested with State College, Cornell University, and the Amphibious Diesel Engineering School at Flint, Mich. Navy men schooled at State College are chiefly concerned with the operation and maintenance of naval vessels other than landing craft, such as submarines, destroyer escorts, mine craft, patrol craft, and auxiliaries.

Top-ranking naval officers, statesmen, educators, and directors of America's great industries have all commended State College for its thorough program of naval engineering training, regarded as a significant factor toward the successful prosecution of the Navy's far-reaching wartime tasks.

During the ten-year period following 1932, the scope of Diesel installations in naval vessels of all types was stepped up from a total of approximately 150,000 horsepower to a total of 10,000,000 horsepower in 1942, a Navy official said. By the end of 1944, total installations of 30,000,000 horsepower by a substantial margin.

Announcement of the Navy's decision to close the State College unit was made in Washington by Rear Admiral William M. Fechteler, assistant chief of Navy Personnel.

Legion to Sponsor Victory Celebration

With record crowds indicated, the American Legion Victory Celebration opens at the State Fairgrounds next Monday night at 7 o'clock under auspices of Raleigh Post No. 1, of the American Legion, and will last through Saturday, September 29. Proceeds will go toward the construction of a \$150,000 American Legion Home in Raleigh for veterans of World Wars I and II.

George A. Hamid, remembered for the many fine grandstand attractions he brought to the State Fair for years preceding the attack on Pearl Harbor by the Japs, is in charge of the grandstand show for the Legion's Victory Celebration. Hamid's "Song of Victory Revue," starring the famous Roxy-Cole direct from New York's Roxy Theatre, head a star-studded galaxy of grandstand acts to be given twice daily. An extra added attraction is Kehoe and His Marimba Band.

Providing the midway attractions will be the Eddy Brothers Thrill Show and Circus.

Dr. Greaves-Walker, Head of Ceramic Dept. Returns From WPB

Dr. A. F. Greaves-Walker, head of the Department of Ceramic Engineering at State College, who has been on leave with the War Production Board in Washington since early in 1942, recently resumed his duties at the college.

The State College faculty member, known throughout the world for his work in ceramic engineering, was called to Washington to become chief of the Non-Metals Section of the WPB, a position similar to the one he held with the War Industries Board during World War I.

While heading the Non-Metals Section, Dr. Greaves-Walker had the opportunity to direct into war use a large tonnage of the non-metallic minerals of North Carolina, including pyrophyllite, ilmenite, kyanite, vermiculite, spodumene, talc kaolin, and mica. He also secured governmental financing for a kyanite plant at Spruce Pine and the priorities necessary to construct the world's largest spodumene-producing plant at Kings Mountain.

Expansion of Mineral Industries

Dr. Greaves-Walker, in an interview yesterday, predicted a vast expansion of the minerals industries in North Carolina and the nation in the post-war era, but he emphasized the need for a broadened program of research to develop the Tar Heel State's rich mineral resources which, if developed, will provide a considerable amount to State College alumni who died in World War I. Front row, left to right: Edward J. Mahoney of Brooklyn, N. Y., vice president of the Student Council; Tony Gaeta of Staten Island, N. Y., secretary of the Council; Chester A. Fisher of Ivanhoe, treasurer; and L. W. (Bill) Gatlin of Charlotte, president. The others shown are members of the Council. Second row, left to right: Collins Wright of Durham; John L. Castleberry of Apex; James Cheek of Rockwell; and Loy Thompson of New Bern. Third row, left to right: Alton Lomax of Raleigh; Charles Hughes of Roxboro; R. E. Wooten of Raleigh; and Douglas James of Beaufort. Fourth row: Charles Moss of Kings Mountain; William Thornton of Richmond, Va.; C. A. Dillon, of Raleigh; and Thomas Garrison of Charlotte.

The war, the State College educator and research authority stated, has brought the ceramic and non-metallic minerals into prominence and has widely extended their use. An increased demand for ceramic engineers, which has always exceeded the supply, has been created, he said.

During the war, approximately \$20,000 worth of additional equipment was installed in the State College ceramic laboratory making it the best-equipped plant of its kind in the United States. The nation's largest research project on radio and radar insulating materials was conducted at State College during the war, Dr. Greaves-Walker said.

"The people of North Carolina," he said, "have become mineral-conscious during the war largely because of the interest in mineral development taken by Governor Broughton during his term of office. This will undoubtedly stimulate in the re-building of the student body in the college's ceramics department as soon as the high school graduates are released from the draft."

Intelligence Committee Executive Last January, Dr. Greaves-Walker was appointed executive secretary of the Metals and Minerals Subcommittee of the Technical Industrial Intelligence Committee of the Joint Chief of Staff. The committee was assigned to obtain military and industrial intelligence in Germany and was kept secret until after V-E Day.

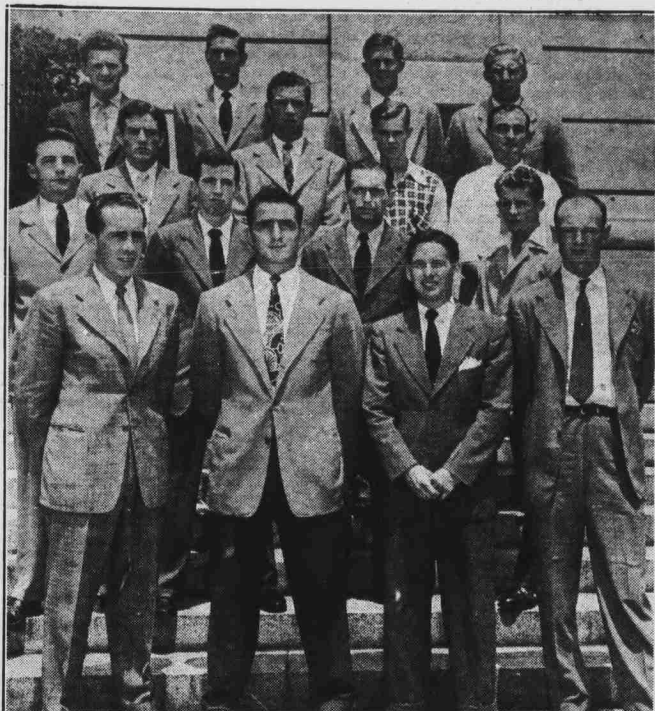
Dr. Greaves-Walker enlisted a staff of over 40 of the outstanding metallurgists and ceramists in the country for the mission to Germany where they have been collecting information for the past six months. The State College man estimated yesterday that the data collected by the body will be worth millions of dollars to the U. S. metallurgical and ceramic industries.

In December of 1942, Dr. Greaves-Walker was transferred to the Office of Production Research and Development of the War Production Board as deputy chief of the Metals and Minerals Division. The division directed and supervised approximately 300 investigations and researches concerning aluminum, magnesium, iron and steel manganese, beryllium, chromium, lithium, diamonds, mica, powder metallurgy, spectroscopy, fuze oropcey and allied subjects.

Supervises Research Many of these projects were personally supervised by Dr. Greaves-Walker, including the research on radio and radar insulation conducted in the Department of Ceramic Engineering at State College by Professor E. L. Stone. "The results of the State College project proved

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Student Government Leaders at N. C. State College



Leaders of N. C. State College's Student Government during the summer term are shown here as they posed at Memorial Tower, impressive monument in the State College campus. Front row, left to right: Edward J. Mahoney of Brooklyn, N. Y., vice president of the Student Council; Tony Gaeta of Staten Island, N. Y., secretary of the Council; Chester A. Fisher of Ivanhoe, treasurer; and L. W. (Bill) Gatlin of Charlotte, president. The others shown are members of the Council. Second row, left to right: Collins Wright of Durham; John L. Castleberry of Apex; James Cheek of Rockwell; and Loy Thompson of New Bern. Third row, left to right: Alton Lomax of Raleigh; Charles Hughes of Roxboro; R. E. Wooten of Raleigh; and Douglas James of Beaufort. Fourth row: Charles Moss of Kings Mountain; William Thornton of Richmond, Va.; C. A. Dillon, of Raleigh; and Thomas Garrison of Charlotte.



CH. J. W. HARRELSON

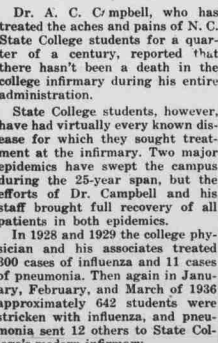
Welcomes Students

To: New and Old Students—The State College staff is grateful and happy. We are grateful for the ending of the war and happy over the large number of students returning or entering for the first time. The United States—greatest nation of the world—attained its powerful position because of technology. The scientists in agriculture, engineering, and textiles caused this country to rise to its unsurpassed power and position. State College men have played a very significant part in the advancement of the State and the Nation in war and in peace. You are the heirs to great accomplishments and traditions. Cordially yours, J. W. HARRELSON, Chancellor.

Anderson Elected To Head Sigma Xi

Dr. D. B. Anderson has been elected president of the State College Chapter of the Society of the Sigma Xi, America's highest honor society in the general sciences, it was announced recently. Other new officers are Dr. W. J. Peterson, vice president; Dr. J. L. Cichole, secretary; Dr. S. G. Lehman, treasurer; and Dr. G. Wallace Smith, chairman of the program committee. New members of the executive committee are Dr. Ralph W. Cummings, retiring president, and Dr. W. G. Van Note. College faculty members who were initiated into the society's membership at a recent meeting are: Don E. Ellis, Dean Malcolm E. Campbell, Frank H. Smith, T. B. Mitchee, Robert L. Stone, Gordon K. Middleton, Cary H. Boston. (Continued on Page 4)

Dr. Campbell Completes 25 Years Administration At Infirmary



DR. A. C. CAMPBELL

Dr. A. C. Campbell, who has treated the aches and pains of N. C. State College students for a quarter of a century, reported that there hasn't been a death in the college infirmary during his entire administration. State College students, however, have had virtually every known disease for which they sought treatment at the infirmary. Two major epidemics have swept the campus during the 25-year span, but the efforts of Dr. Campbell and his staff brought full recovery of all patients in both epidemics. In 1928 and 1929 the college physician and his associates treated 300 cases of influenza and 11 cases of pneumonia. Then again in January, February, and March of 1936 approximately 642 students were stricken with influenza, and pneumonia sent 12 others to State College's modern infirmary. Later in 1936, however, one student had spinal meningitis. His serious condition made it necessary to remove him to Rex Hospital in Raleigh and later to a hospital in Richmond, Va., where he succumbed despite all the techniques of modern medical science. Although a patient has never died in the college infirmary, Dr. Campbell does not imply that he has not lost a patient in that period. Two have died at Rex Hospital, where they were carried because of their critical conditions, in addition to the one who died in



DR. A. C. CAMPBELL

Richmond. Several students have been fatally injured in accidents off the campus, and an Army student was recently killed by a bolt of lightning while he was jogging around a college athletic field. Simple Beginning When Dr. Campbell began his tenure at State College in 1920, his staff consisted of one matron, one orderly, and one maid, and the infirmary was equipped to care for only 32 bed patients. Dr. Campbell's present staff is composed of

5 nurses, a head nurse, a night supervisor, two record clerks, and two resident student aides. Today the college has a 90-bed hospital structure with a first dental clinic, laboratory, first aid room, doctors' offices, clerical offices, reception room, records room, diet kitchen, nurses' offices, main kitchen, treatment room, 15 semi-private rooms, two large wards, and an isolation ward for patients with contagious diseases. The hospital building, formerly Clark Hall, an unfinished dormitory in the Freshman Quadrangle, was named in honor of Walter Clark, Jr., a graduate of State College and son of the late Chief Justice Walter Clark. It is located back of the Frank Thompson Gymnasium on the southern side of the campus. The college's present hospital is regarded as one of the largest and most modern college hospitals in the South with the exception of schools with medical colleges and was recently voted coveted recognition in the American Medical Association's Register of Hospitals. Recognition for High Standards Dr. Victor Johnson, secretary of the American Medical Association, explained that "the association's recognition of the State College medical unit is based on certain high standards in regard to organization, physical plant, medical

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Nearly 24,000 Men From State Aided War Effort

Carding Bottleneck Can Now Be Relieved

Cotton carding, one of the chief bottlenecks in the textile industry's heavy wartime production program, may be accelerated considerably without causing any detrimental effects to the quality of yarns produced, according to the results of experiments conducted by the School of Textiles at N. C. State College.

The widespread experimental study was outlined and directed by Dean Malcolm E. Campbell, head of State College's famed School of Textiles, and Giles E. Hopkins of New York City, director of applied research of the Textile Research Institute. The experiments were made under the sponsorship of the Office of Production Research and Development of the War Production Board.

Elliot B. Grover and George H. Dunlap, both faculty members of the State College School of Textiles, explained that the results of the experiments should be of "particular interest" to cotton mill operators at this time when the capacity of their equipment is heavily burdened by war demands. Principles involved in the study also apply to the carding of staple synthetic yarns.

The manufacture of heavy volumes of military fabrics has made the nation's cotton carding capacity inadequate, and textile authorities are hopeful that the processes recommended in the study may spur America's overall yarn production with a corresponding increase in waste, power consumption, and a drop of not over one-third of a grade in yarn appearance.

"1. By increasing the overall card speeds, the production may be increased as much as one-third, with a corresponding increase in waste, power consumption, and a drop of not over one-third of a grade in yarn appearance.

"2. By increasing the flow of cotton through the card without increasing the cylinder speed—as by increasing doffer speed, sliver weight, or lap weight—the production may be increased over one-half, with reduction in waste, in power consumption per pound of cotton carded, and usually a drop of not more than one-third of a grade in yarn appearance.

"3. In either of the above cases there is no significant change in yarn strength.

"4. Because increasing card production by raising the speed of the entire card involves increased mechanical deterioration, reduces the power efficiency, and causes increased waste, none of which is outlined under the conditions outlined in conclusion 2, and because the yarn quality characteristics are affected approximately the same way in both cases, it would seem that the method outlined in conclusion 2 is preferable. However, when higher waste removal is desirable, a combination of the two methods outlined in the first two conclusions might prove advantageous.

"5. There is a direct relationship between the speeds of the cleaning members of the card—lickerin, cylinder, and ats—and the amount of waste produced by each. Thus, the overall waste percentage at the card can be controlled within practical operating limits by the regulation of the speeds of these parts.

"6. Peak power demand charges should not be increased as a result of using high overall card speeds, as represented by cylinder speeds of 225 r.p.m. for group or line drives. Special problems will exist with individual card drives, which must be met according to the particular conditions of each mill."

Grover and Dunlap, who worked on the project and who are recognized as two of the country's leading textile scientists, recently wrote a paper—66 pages long—to explain their numerous findings.

Notice

There will be an important meeting of the business and editorial staffs of THE TECHNICIAN at 5:00 Monday, September 24. All students, this includes freshmen, who are interested in working on either of these staffs please come to the TECHNICIAN office at 10 Tompkins Hall at that time. No previous experience is necessary.

By RUDOLPH PATE

State College, possessing the greatest concentration of defense activity of any spot in North Carolina before the Navy, with the exception of Fort Bragg, has provided special military, naval, and technical training for 23,628 men and women to equip them to wage war against the enemy, according to a survey made recently.

In addition to the number receiving instructional work in short courses and military study of the campus, more than 5,000 alumni served in Uncle Sam's fighting forces. Approximately 206 of the former students died in battle, and scores were wounded. About half of the total number of servicemen from the college—2,500—are commissioned officers.

Included in the group of officers are one vice admiral, six generals, and a host of colonels and men of lower rank. Highest ranking State alumnus in the Navy is Vice Admiral David Worth Bagley of Raleigh, commander of the Western Sea Frontier with headquarters in San Francisco. Top-ranking military man is Major General William C. Lee of Dunn. Five alumni are brigadier generals. They are: Sam W. Connell of Warren; Archie A. Farmer of Wilson; Pierre Mallet of Asheville; Jim W. Townsend of Greensboro; and C. L. Keeran of Charlotte, who was reported missing in Sicily.

Even before the Japs leveled their guns on Pearl Harbor, giant industries—industries playing key roles in the national defense program—were already beating the paths to the campus, searching out promising young engineers and other technically trained students. The fact that modern defense is carried on by technically trained men and women focused the spotlight squarely on technological schools such as State College.

Diesel School Played Big Part

The chief responsibility of supplying the U. S. Navy with reserve engineering officers rested with State College, Cornell University, and the Amphibious Diesel Engineering School at Flint, Mich. The college's Diesel Engineering School, having more than \$2,000,000 worth of Diesel engines and equipment in its laboratory, is housed in a new modern building and has constantly trained men for naval duties for 13 months. Prof. Robert B. Rice is the college's director of Diesel Engineering.

Navy men schooled at State College are chiefly concerned with the operation and maintenance of Diesel installations in types of naval vessels other than landing craft, such as submarines, destroyer escorts, mine craft, patrol craft, and auxiliaries. Over 1,300 men have been trained here.

During the days of peace, State College may continue to aid the Navy with its huge program, because, in his dedicatory address when the new Navy building was opened at the college, Rear Admiral E. L. Cochrane, chief of the Navy's Bureau of Ships, declared:

"We can look on this building which we are dedicating today as the symbol of mutual interest and good will between North Carolina State College and the Navy, not only for the task which lies immediately before us in the training of young Diesel engineers for our ships, but also in the even broader problems and interests to come in the days of peace which lie ahead."

Other Programs Served Well

Approximately 4,000 Air Corps cadets, famed for the singing of merry tunes as they marched from class to class across the sprawling campus, were trained at the college and sent to advanced flying bases to receive aviation instruction preparatory for combat. The Air Corps unit was disbanded about a year ago when the Army discovered that it has sufficient numbers of aviators to carry out its war tasks.

A total of 2,866 young soldiers in the Army Specialized Reserve Program were trained prior to August 1 at State College, and 1,732 Army men were processed through various departments of the college in the Army's STAR program. In addition to this training in military study and engineering, the College's Department of Military Science and Tactics—which consistently receives an annual rating of "excellent" from the War Department—continued to carry out its far-reaching program in military science with hundreds of ROTC students.

The College's Extension Division, directed by Edward W. Ruggles, held night classes and short courses for 13,810 trainees, who upon satisfactory completion of the pre-

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THE TECHNICIAN

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By the Students



North Carolina
State College

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Welcome, Freshmen!

Though you new members of the class of '49 have doubtless already been welcomed time and again by different organizations and individuals, we of The Technician staff wish to join together in saying that we congratulate you on your choice of enrolling in State College and we sincerely hope that all of you will benefit by this choice.

You new freshmen comprise a class unique in the history of State College because of the wide variance in age range, amount of experience, and maturity of the different individuals. Though State has already graduated some students who were veterans of World War II, this is the first year that the proportion of veterans in the freshman class has been noticeable to any extent. If in this or in any future editorial we seem prone to offer advice or criticism, it is because we feel that we have more experience and knowledge than the average freshman with regard to the college, though not necessarily more in other matters.

State College is a school with an excellent national reputation. It has a more than competent Agriculture and Forestry School, an excellent Teacher Education School, an Engineering School that is rated as one of the best in the nation, and a Textile School that is the most outstanding in the nation and one of the best in the world. Combined with an enthusiastic spirit which has always been evidenced in the past, these four schools comprise a college which each of you should be proud to be a student of.

Many of you have heard stories about how difficult the courses at State College are. These stories are, in the majority of instances, very true. With peace-time conditions prevailing, only one out of every three men who started at State graduated. So it appears that if you are starting in college just to have a good time, it would be best to stop now before you have wasted too much money and too much of your own and other people's time. However, there is one bright spot in this rather dreary picture we have painted. Rarely does anyone flunk out of school if he makes an earnest effort to do his work. So, the only advice we have to give at this time is that we hope that you will like State enough so that you will make a conscientious effort to earn the grades which will not only enable you to stay in school, but which will also give you high scholastic honors.

About Fraternities

Tomorrow night marks the beginning of Rush Week, a period of great interest to all freshmen and to many upperclassmen. Rush Week is the time set aside each year during which the various social fraternities search for new members for their organizations. The importance of this week to fraternity men can be realized when it is understood that only by taking in new members can a fraternity survive and improve itself from year to year. To freshmen Rush Week is of special significance since it is during this one short week that many of them will choose the group which they will be closest associated with during the next four years. Since it is doubtful that you new men know much about rushing or fraternities, we will attempt to explain them to you.

During Rush Week the fraternities try to find freshmen who will be an asset to their organization and who are congenial and likable. They do this by giving open houses, parties, smokers, and by entertaining the rushees in any way possible so that the members will have an opportunity to meet and get to know the freshmen. During this same time the freshmen have a chance to look over the different fraternities and find out for themselves which group they like the best. The Interfraternity Council has made a set of rules regarding Rush Week. These Rules appear elsewhere on this page and should be observed at all times by both fraternity men and rushees. Any infraction of them should be reported to the Interfraternity Council.

Fraternity life is a very important phase of one's college experience. Contrary to many wild rumors circulated about fraternities by persons who actually know very little about them, fraternities are organizations which try in every way possible to improve the scholastic standing, the moral standing, and the leadership ability of each of its members. It is only natural that the fraternities try to mold the thoughts of each member to fit commonly accepted Christian precepts, since by doing so they are better able to perpetuate themselves. Fraternities also help its members by stressing the importance of social adeptness. It is very difficult, except through fraternities, for a student to gain the social poise and friendship-making ability that is so important in the business world.

Though fraternities do make an added expense that is prohibitive to some students, to those who can afford them, a fraternity is a sound business investment that will pay dividends for a very long time.

YEAAA, State College!!

Tomorrow night the Wolfpack engages Milligan College in its first encounter of the football season. This year State has nine games on its schedule, five of which are to be played here at Riddick Stadium. Again this year the Wolfpack is piloted by the able Beattie Feathers. Assisting him are Star Wood, end coach, and Lyle Rich, line coach. Last year Feathers produced a team which marked up a score of seven victories against two losses. This is the most successful season a State football team has had since the year 1927 when Gus Tebell was coaching. Feathers has worked with his squad since the early part of August; and again it looks as though he may have a winning team. The Pack defeated Carolina in a scrimmage 30 to 13. They have received favorable press reports from many newspapers.

However, a football team is only as good as its backing. If the student body does not support the team and does not make the boys feel as though it were behind them, then it is no need to attempt to have a successful season. But if all of us come out for the games and root for the team whether it is winning or losing, then we are likely to have a team we can be proud of. Only by supporting the team to the uttermost can we show our appreciation to the coaches and the boys for the hard work they have done. So come on, fellows, postpone that trip until next week end and go to the game tomorrow night! Get out there and pull for your team!

RUSHING AND PLEDGING RULES

(Dates are for the college year 1945-1946)

(A) No student shall be eligible to membership in a fraternity unless he is a member of one of the four college classes. "Special" students are not eligible to join a fraternity.

(B) No freshman shall be approached in any way on fraternity admission during freshman week or on registration day for upperclassmen (September 18 to 21, inclusive).

(C) The two days following upperclassmen registration (Saturday and Sunday, September 22 and 23) are known as "Visiting Days." During these two days all freshmen receiving invitations from fraternities shall visit the chapter houses of all fraternities extending such invitations.

(Note: Each fraternity shall send out its own visiting invitations. These will not be sent out by the Interfraternity Council.)

(D) At each fraternity house each freshman is required to fill out his "Date Card" in triplicate. One copy is retained by the freshman, one is retained by the chapter, and the third is turned in to the office of the Dean of Students on Monday morning, September 24.

(E) Rushing shall begin at 12:00 noon, Monday, September 24, and close at midnight, Saturday, September 29. The hours for rushing shall begin at 12:00 noon each day and close at 12:00 midnight.

(F) Bids and an alphabetical list of those to whom bids are to be sent shall be turned in to the office of the Dean of Students by each fraternity before 12:00 noon, Monday, October 1.

(Fraternities Note: There shall be no rushing between midnight, Saturday, September 29, and noon, Monday, October 1. This period shall be used by the fraternities in preparing their bids and an alphabetical list of all students whom they wish to be turned in to the office of the Dean of Students by 12:00 noon, Monday, October 1.)

(G) Silent period shall begin at midnight, Saturday, September 29, and close at 12:00 noon, Saturday, October 6.

(H) During silent period no member of a fraternity, either Active or Alumni, shall have any communication whatsoever with a freshman—on the campus, in the City of Raleigh, or elsewhere.

(I) All freshmen receiving bids from fraternities shall accept or reject their bids within the period from Wednesday, October 3, to Saturday, October 6, by reporting in person, to the Dean of Students at a place and at such hours as shall be announced by him.

College Rules: Freshmen must attend all their regular college duties during rush week. Fraternities are not to schedule rushing dates in such a way as to interfere with the regular work of freshmen.

If it is shown that any fraternity is interfering with the attendance of a freshman upon the exercises of freshman week or his regular classes during rushing period, the fraternity will be reported to the Faculty Council for disciplinary action. Neither upperclassmen nor freshmen will be excused from their regular college duties because of fraternity activities.

SHARPS and FLATS

By HOWIE KADEN

Well, music fans, another summer has come and gone, and has left us with a lot of good music, both live and canned. I was at the Cafe Zanzibar recently, and was afforded the opportunity of listening to two of today's great bands—Duke Ellington and Louis Jordan. Ellington's band was the same as it has been for the past twenty years, and that is terrific. He played most of his old numbers ("Solitude," "Sophisticated Lady," etc.) and it was the same Duke all over again. I'd rate him as the foremost exponent of modern jazz and swing. Louis Jordan also provided an evening of fine entertainment. His combo, though small, plays their arrangements with a good beat, and they have the enthusiasm that is so essential for a good outfit. They played their fine rendition of "Caladonia" with Louis' on the vocal, and also playing his alto sax. During my stay here, I've toured most of the spots where the "names" in the music world are playing. I saw Charlie Barnet, and I was indeed disappointed. The band is good, in a sense, but it is nothing like the old Barnet outfit of a few years ago. Remember "Cherokee" and some of the others that made him famous? Well, he played all of them, but they lacked the drive that was there then. The Andrew Sisters are holding their own at New York's Paramount Theater, and the new swoon sensation, Johnny Johnston, is a few doors up Broadway. Johnston has risen swiftly in the ranks of singers, and now is on the top. His voice and actions are filled to overflowing with personality and charm. I guess that's the secret of swoon. Crosby and Sinatra seem to have made a success out of it.

Let's get on to the subject of the canned music. Johnny Mercer's "Achin' Son, Topeka and Santa Fe" still seems to be leading them all in popularity. This summer saw varied arrangements of the number. Louis Prima, Kate Smith, and others put out their own versions of it, but I think the best by far is that of the composer, Johnny Mercer. It is on Capitol, and he is assisted by the Pied Pipers. Right behind the heels of "Achin' son" is "Til The End of Time." Adapted from the music of Chopin's "Polonaise," it was put to some beautiful lyrics, and has come out as one of the top hits of the season. Perry Como's vocal on it is very good, but as for me, I prefer Les Brown's version. The piano solo at the beginning is very reminiscent of the old Claude Thornhill band, with the clarinet background.

The Herman Herd has been piling the record shelves with some terrific sides. Herman's band is the top band of the year—everything about it is good.



SPECIAL NOTICE

To Freshmen!

For Those SMOOTH Haircuts and Last Minute Trims

The Place To Go Is

MAN-MUR BARBER SHOP

"In The ManMur Building"

CAMPUS CENTRIFUGE

By BILL GATLIN

Since some of you may not understand, the title of this new column is not a weak attempt by an engineering student to imitate the famous news columns, "Washington Merry-Go-Round" and "National Whirligig." Please do not compare the style and subject matter.

As president of the student body, the writer welcomes all the new students to this campus and wishes them a pleasant time.

During the summer session just passed, a general election was held to fill in the vacancies left in the permanent student council when the spring term ended. This summer school student council, which was a fully legal body representing the students, spent a very active term of office. Probably the most important action taken by the group, having a permanent effect upon the school, was the passage of a new set of by-laws. These by-laws were adopted in a last minute vote-taking because the members realized that there was not time to give detailed hearings to each section. This hasty action is not likely to be regretted because any part of the by-laws can be changed by a majority vote of the council. The present wording is obviously a splendid job, and only actual trial can reveal the imperfections. Professor W. N. Hicks deserves the full credit for drafting this document. His untiring interest has been a constant source of energy for the councilmen.

Contrary to the operations of previous wartime councils here, the summer school men held meetings weekly at a regular time. These regular meetings revealed that there is an endless number of worthwhile projects that any student government can undertake. Every meeting threatened to run overtime on account of the very interesting discussions. To assume this attitude towards student government is a vital obligation that every man owes to his classmates when he runs for a campus office.

The summer term was begun with an announcement that a Mid-Summer Hop would be held under the auspices of the student government. The dance was semi-formal and was held on the night of August 4. Jimmy Fuller was contracted to furnish the music. In order to attract the greatest number of students, the price was set at one dollar and the deficit borne by the student council treasury. An unusually large percentage of the student body attended, and everyone attested to its success.

WELCOME TO RALEIGH!

This Year As Always

Your Fashion Headquarters Are

FINE'S Men's Shop
201 Fayetteville Street
Raleigh, N. C.

GLEANINGS

In place of the dirt that is regularly thrown in this column every week we would like to print a few extracts from past issues of The Watagan, the State College humor magazine. Publication of this magazine was stopped in 1942, but it is to be hoped that it will soon be started again. Well, here goes.

WELCOME FRESHMEN

Half your time is spent in lines... The best food in town is served at the cafeteria... You won't recognize that shirt after the laundry fixes it... The Mop-up has the most reasonable rates on the campus... Agnes is not just a name, it's an institution (you freshmen won't understand this)... ABC stores sell alphabet books... A and C dormitories are for out-of-state students who want to live out of State... The Wright brothers aren't the only ones who got high at Kitty Hawk... Carolina graduates are eligible to enter Oak Ridge Military Academy... The morgue at the Infirmary is the largest in the state... Dates are available at Meredith College if proper attire is worn... Pleated burlap ZOOT SOOTS with three-foot keychain is a necessity (take note, Monroe)... Pop Wellons notifies us that you are entitled to as much electricity as you can suck out of the wall sockets... This is up to 2,400 watts... Girls are not allowed in Freshman Dorms more than two nights without change of hankies... If you read this far you are a wastrel and should get out of college before you waste any more of the old man's dough. (This could go on forever, so we'll go on to some jokes.)

Any girl looking for a real thrill should kiss a man with hiccoughs.

Beneath the sod rests Arthur,
They put him there today;
He lived the life of Riley
While Riley was away.

Her (in parked car): "If you do I'll scream."
Him: "If I do what?"
Her: "For heaven's sake! Weren't you going to do something!?"

"What are you thinking about, Jack?"
"The same things you are, Jane."
"If you do, I'll scream."

He: "Do you know what virgins dream about?"
She: "No, what?"
He: "I suspected as much."

Sergeant: "You'll have to remember that nobody ever layed down on the job and got results."
Rookie: "Oh, noooooo?"

I can't bear children
Who are scrawny and pale;
I can't bear children
Because I'm a male.



HEY, FELLOWS!
Don't Get Left
In The Rush!

FOLLOW THE CROWD

TO

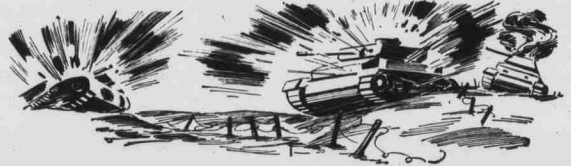
"STONEY'S"
COLLEGE COURT SODA SHOP

"On The Court"



Campus News

RESEARCH AND ENGINEERING KEEP GENERAL ELECTRIC YEARS AHEAD



TANK WRECKER

The trail of tank wreckage from Normandy to Berlin is evidence of a super shell's effectiveness. It was one of the potent weapons necessary to drive the enemy back to Berlin.

ordinary shells because of their lightweight aluminum housings, and so have higher velocity. They often stopped German Tigers with a single shot—at ranges up to 3000 yards.

The shell's core is cemented tungsten carbide, improved by G-E research and manufactured by the Carboly Company, G-E affiliate. It's a material second to diamonds in hardness—commonly used for the tips of cutting tools and wear-resistant dies. Projectile using this core weigh less than

The core does the actual armor piercing. Because of the extreme hardness of the carbide, it doesn't flatten out on impact. Instead, it goes right on through the armor plate and then breaks up into lethal pieces inside the tank. General Electric Company, Schenectady, N. Y.

Hear the General Electric programs: "The G-E All-girl Orchestra" Sunday 10 p.m. EWT, NBC— "The World Today" news, every weekday 6:45 p.m. EWT, CBS.

The best investment in the world is in this country's future—Keep all the Bonds you Buy.

GENERAL ELECTRIC

State - Milligan Tomorrow Night

Another school year is about to begin, and another collegiate sport year is swiftly approaching. During the next nine months, this column will, as in the past, attempt to keep the students at State up-to-date on the happenings in the world of sports, with special emphasis on the collegiate teams in this area. Any criticisms of any comments made in the column will be accepted and published in this column if the writer so desires.

King football will begin its two month reign at State College tomorrow night when the 1945 Wolfpack eleven opens the season against Milligan College in Riddick Stadium. We don't know how many students are planning to spend the week end here, but it is hoped that all new and old students will remain in Raleigh for the contest. Since the war started, the school spirit at State has not been any too commendable. Despite the football team's excellent record of winning seven of nine games last season, student attendance was very poor. The attendance at basketball contests was also at a low ebb, but the baseball attendance last year was at an all-time low. This year, let's act as in pre-war days—everybody turn out for the game tomorrow night and show the team that the old State spirit has returned.

Was Carl Snaveley's face red when our State boys shellacked his Carolina football team in a practice game here last week. The Tar Heels looked mighty weak in several respects, and unless these are remedied, the Carolina opener next Saturday against Georgia Tech will be a disastrous one for Snaveley's boys. . . . Wake Forest will also wait until next week before they open their season at Knoxville against the University of Tennessee. Then comes Army and Duke. For scheduling such opponents, Peahead Walker must be producing a powerhouse at the Baptist institution. . . . Tomorrow afternoon, Eddie Cameron's Duke Blue Devils open an eight-game schedule against Johnny McMillan's South Carolina Gamecocks at Durham. Despite Wallace Wade's return to Duke, the Devils don't appear to have as strong a team as they fielded last year. The addition of Gordon Carver and Cliff Haggerty to the squad should help out a lot, though. But here's one prediction—Duke and Carolina will have two of the powerhouses of the entire South in 1946. . . . Davidson will have an informal team up at the Presbyterian school. Head Coach McIver is on a year's lease to V.P.I., but he expects to return to Davidson for the 1946 season.

As an added feature of the column this fall, we will have three sports figures in this section of the state to join us in predicting the leading games of the week. Our first guess expert is Mr. Charlie Doak, the "grand old man" of the State athletic department. "Mr. Charlie" is an

ex-baseball coach of State, and is now chief instructor in the physical education department. Our second prognosticator is Ray Reeve, sports director at Radio Station WRAL. Ray is one of the leading sports announcers in the South. In the third spot we have Rudolph Pate, director of the State News Bureau.

You, the students at State, will also have an opportunity of showing your ability at predicting. To the right of the four "regulars" predictions, there is a blank space where each student may fill in his choice of the winner. Simply make your prediction in the blank space and drop your list along with your name and college address into the ballot box outside the Technician office on the basement floor of Tompkins Hall before noon Saturday (tomorrow). The student who predicts the most games correctly will receive two free tickets to the Varsity Theater, courtesy of Mrs. Ray, the manager. Here's a chance to forecast some games and also win free tickets to the Varsity; so make your predictions and drop your list into the box before noon Saturday.

The predictions:

Teams	Doak	Reeve	Pate	Dillon
State-Milligan	NCS	NCS	NCS	NCS
Duke-South Carolina	Duke	Duke	Duke	Duke
Clemson-Presbyterian	Cl.	Cl.	Cl.	Cl.
V.M.I.-Emory & Henry	VMI	VMI	VMI	VMI
Kentucky-Mississippi	Ky.	Miss.	Ky.	Miss.
Auburn-Howard	Aub.	Aub.	Aub.	Aub.
Georgia-Ky. State Teachers	Ga.	Ga.	Ga.	Ga.
Arkansas-Barksdale Field	Bark.	Ark.	Ark.	Ark.
Baylor-W. Texas State	Bay.	Bay.	Bay.	Bay.
Rice-Corpus Christi Naval	Rice	Rice	Rice	Rice
Texas-Bergstrom AAF	Tex.	Tex.	Tex.	Tex.
SMU-Eagle Mtn. Marines	SMU	SMU	SMU	SMU
Villanova-Bucknell	Buck.	Vill.	Vill.	Vill.
Virginia-Coast Guard	Va.	Va.	Va.	Va.
Cornell-Syracuse	Cor.	Syr.	Cor.	Cor.
Illinois-Pittsburgh	Ill.	Ill.	Ill.	Ill.
W. Virginia-Otterbaum	W. Va.	W. Va.	W. Va.	W. Va.
Michigan-Indiana	Mich.	Mich.	Mich.	Mich.
Northwestern-Iowa State	Nor.	Nor.	Nor.	Nor.
Kansas-T.C.U.	TCU	TCU	Kan.	TCU
Purdue-Marquette	Pur.	Pur.	Pur.	Pur.
Minnesota-Missouri	Minn.	Minn.	Minn.	Minn.
Tulsa-Wichita	Tul.	Tul.	Tul.	Tul.
Wisconsin-Great Lakes	G. L.	Wis.	Wis.	Wis.
Florida-Mayport Naval	Fla.	Fla.	Navy	Fla.
Col.-of-Pacific-Fresno St.	Pac.	Pac.	Pac.	Pac.
U.S.C.-U.C.L.A.	USC	UCLA	USC	USC
California-St. Mary's	St. M.	Cal.	Cal.	Cal.
Denver-Colorado College	Den.	Den.	Den.	Den.

Lyle Rich New State Line Coach

Lyle M. Rich, former director of athletics and physical education in the Charleston, W. Va., high schools, accepted a one-year contract as line coach at State College last spring and is beginning his first year with the Wolfpack. Rich, who did undergraduate work at Yankton College in Yankton, S. D., and earned his master's degree in physical education from the University of Michigan, succeeded Alfred W. Thomas, who resigned the State line coach position last winter to return to his home near Knoxville, Tenn. Rich began his duties at State on July 1.

Two Teams Play In Riddick Stadium At 8

The 1945 edition of the State College football team will open the season tomorrow night in Riddick Stadium when they oppose the Milligan College Buffaloes. Coach Beattie Feathers and his assistants have been drilling more than 35 boys during the past six weeks in preparation for the schedule, which includes games with such schools as Clemson, Virginia, Wake Forest and Duke.

The Buffaloes were beaten in their opener last week with Emory and Henry. This defeat, nevertheless, should not lead one to believe that State will have an easy time tomorrow night. The boys from Johnson City, Tenn. have a strong line, and a swift backfield, which includes the "little all-America" tailback, Bill Showalter. Milligan is expected to give the locals a real test.

The State boys have eight returning lettermen and two other veterans of last year's outfit from which to build a team. The first-year men on the squad have shown some promise of developing into first stringers, with a couple of them scheduled to break into the starting lineup tomorrow night. Line Coach Lyle Rich had to find a new center from the rookies. Last year's two centers have been taken into the Armed Services. One hundred and ninety pointer John Bonner has the inside track on the pivot post, with Bill Poluanik, 175, pushing Bonner for the starting center. Two of last year's lettermen, Julian Rattelle and John Scarpa, and newcomer Jo-Jo Saunders are the leading candidates for the left guard spot. Julian has his leg broken last year against VMI, and it has been giving him some trouble ever since. Tony Gaeta is the probable starter at right guard. Gerald Turbyfill is the probable starter at left tackle position. Newcomer Eric Jensen has shown great promise and probably will be given an opportunity to see a lot of action tomorrow night at right tackle. Other reserves at the tackle post include Bob Ashworth and Nick Palidino.

Notice

All students must present their athletic ticket at the gate to get into the football stadium tomorrow night. Take your ticket to the southwest gate for admittance. Enter section 20 or 21 for seats in the student section.

1945 State College Football Roster

Name	Pos.	Hgt.	Wgt.	Age	Year	Hometown
June Cheek	E	6-2	175	17	Fresh.	Laurinburg
Tommy Davis	E	5-11	160	17	Fresh.	Goldsboro
Lum Edwards	E	6-1	185	21	Soph.	Big Stone Gap, Va.
Norman Fidler	E	6-3	190	17	Fresh.	Burlington
Paul Gibson	E	6-1	175	19	Soph.	Winston-Salem
Gene Kevit	E	6-1	170	17	Fresh.	Naugatuck, Conn.
Bill Tice	E	6-0	170	17	Fresh.	Wadesboro
Bob Ashworth	T	5-11	180	17	Fresh.	Wilmington
Harry Davis	T	6-1	225	17	Fresh.	Farmville
Ned Dowd	T	6-2	175	17	Fresh.	Wilmington
Eric Jensen	T	6-3	195	17	Fresh.	Brooklyn, N. Y.
Nick Palidino	T	5-10	185	19	Fresh.	Brooklyn, N. Y.
Jerry Turbyfill	T	6-2	195	17	Soph.	Malden
J. B. Walker	T	5-11	170	19	Soph.	Marion
Tony Gaeta	G	6-0	190	20	Junior	State Island, N. Y.
James Jamin	G	5-11	165	17	Fresh.	Rutland, Vt.
Julian Rattelle	G	5-11	170	19	Junior	Durham
Joe Saunders	G	5-10	180	20	Fresh.	Dickinson, W. Va.
John Scarpa	G	6-1	170	20	Soph.	Ansonia, Conn.
Bill Zavidny	G	5-10	175	17	Fresh.	McKees Rocks, Pa.
John Bonner	C	6-1	195	20	Fresh.	Wilkes-Barre, Pa.
Bill Palahunik	C	6-0	165	17	Fresh.	McKees Rocks, Pa.
Albert Wasley	C	5-11	165	17	Fresh.	Frackville, Pa.
Maurice Jacobs	BB	5-9	155	19	Fresh.	Wilkes-Barre, Pa.
Winston Naugler	BB	5-10	170	18	Soph.	Beverly, Mass.
Bill Stanton	BB	6-2	195	21	Soph.	Rowland
John Klock	WB	5-11	165	17	Fresh.	Frackville, Pa.
Harry Jones	WB	6-1	170	17	Fresh.	Big Stone Gap, Va.
Charl Richkus	WB	5-8	165	18	Soph.	Hillsdale, N. J.
Jim Dorton	FB	5-9	160	17	Fresh.	Concord
Chris Steinmetz	FB	5-10	180	17	Fresh.	Wheeling, W. Va.
Bobby Worst	FB	5-11	175	19	Soph.	Brooklyn, N. Y.
Bernie Goehring	TB	5-10	165	17	Fresh.	Hillsdale, N. J.
Howard Turner	TB	5-11	165	22	Junior	Rocky Mount
Don Walston	TB	5-11	170	17	Fresh.	Farmville

*Denotes Letter.
**Denotes Two Letters.

STATE

Friday and Saturday
PAUL KELLY - VIRGINIA GREY in "Grissly's Millions"
Late Show Saturday Night and Sunday, Monday and Tuesday
RUTH HUSSEY - JOHN CARROLL in "Beside Manner"
Wed., Thurs., Fri. and Sat.
Linda DARNELL - Greg. McCLURE in "The Great John L."

Football Broadcasts

WRAL—State-Milligan game: Saturday night at 8:00.
WPTF—South Carolina-Duke game: Saturday afternoon at 2:45.
WRAL—Football scores: Saturday night at 6:45.
WPTF—Football scores: Saturday night at 6:05.

VARSITY

Friday
"WINGED VICTORY"
Lon MacAllister and Jeanne Crain
Saturday
"MAN FROM FRISCO"
Michael O'Shea and Ann Shirley
Sunday and Monday
"AIR FORCE"
John Garfield
Tuesday
"ACROSS THE PACIFIC"
Humphrey Bogart
Wednesday
"THE HARD WAY"
Ida Lupino and Dennis Morgan
Thursday
"JIMMY STEPS OUT"
James Stewart

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A Friendly Welcome To You!

NEW STUDENTS AND OLD FRIENDS

As one of the "institutions" of the State College campus, we hope that this year will be one of the best for you; full of all the pleasure, adventure, and good sound learning that you wish for.

And we also hope that each one of you will daily strive to help keep . . .

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\$23.50 to \$32.50

Young Men's

FINE QUALITY PANTS!
\$4.95 to \$6.95

Young Men's

FINE QUALITY SWEATERS!
\$2.98 to \$6.50

Young Men's

Gabardine Weatherproof TOP COATS!
\$9.95 to \$14.50

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"Anchors Aweigh"
—with—
Gene Kelly - Kathryn Grayson
Jose Iturbi

Sunday, Monday and Tuesday
"Johnny Angel"
—with—
George Raft - Claire Trevor
Hoagy Carmichael

Wed., Thurs., Fri. and Sat.
Gary Cooper - Loretta Young
—with—
"Along Came Jones"

WAR RECORD
(Continued from Page 1)

scribed courses accepted employment in shipbuilding, aircraft construction, munitions plants, fabricating, and other war-vital activities. Over 2,000 of these trainees were enrolled before Pearl Harbor, and many of them were already employed in war industries even before the nation became involved in the war.

As early as 1939, N. C. State was an active participant in the Civil Aeronautics Administration's pilot training program which turned out several hundreds of pilots from this school. A number of the pilot trainees distinguished themselves in combat, beginning with the defense of the Philippines, and several State alumni were killed in aviation training. State College was one of the first 13 schools in the nation to participate in the CAA program.

Prewar Preparations

State College, like other land grant colleges, was deep in war preparation long before Pearl Harbor. Its ROTC department regularly graduated scores of reserve officers for the Army each year, and in the two years before the United States entered the war well over 200 upperclassmen in engineering entered the Naval reserve for commissions in units engaged in shore construction work.

In the summer of 1941 the School of Engineering went on a year-round basis in order to graduate freshmen within three years instead of four. Most of the engineering seniors were able to graduate in March of the next year instead of June as a result of the accelerated program. The military department also gave training throughout the summer.

In the matter of scrap metal salvage, N. C. State students were outstanding and received national recognition in October of 1942, when in a concentrated clean-up on the campus, they piled up three freight carloads of scrap metal in three hours.

Faculty Were Active in War
More than 50 members of the faculty, plus over 70 Extension Service and Experiment Station

workers, were called to active service or joined before the end of 1942. Several of this number were added to the faculties of West Point and Annapolis. Col. J. W. Harrelson, chancellor of State College, himself a veteran of World War I, was the first head of a major college in the Southern states to be called to active duty. Shortly after re-entering the Army Col. Harrelson became deputy chief of the Army Specialized Training Program in the Fourth Service Command area.

Dr. H. A. Fisher, head of the Department of Mathematics, served as Armed Services Coordinator and directed the college's defense training program.

Another contribution to the victory effort was inaugurated by State College in June of 1942 with the beginning of classes in pre-radar radio communication for 50 men employed by the U. S. Army Signal Corps.

The Agricultural Extension Service, with headquarters at State College, was highly active in promoting conservation. Food for Freedom, salvage, and other war activities. Its work, of course, was off the campus and was directed in each county by the county farm and home demonstration agents.

State College faculty members were active in civilian defense. Chancellor Harrelson was the first chairman of the North Carolina Civilian Defense Council, and Earl Hoeteler, professor in the animal husbandry department, was civilian defense chairman for Wake County. A number of faculty members trained as air raid wardens, firemen, and auxiliary policemen. The college itself was organized for air raid protection, with staff members and students assigned to specific posts and duties for trial black-outs or the real thing—which never developed.

In a statement issued recently, Chancellor Harrelson said: "The institution would be cast in a major role if it did nothing but play its year-by-year part in producing highly trained men for industry and agriculture. The heart of any nation's defense is the producers, the men who feed the nation and who keep its production and construction moving forward."

"State College, although handicapped in some respects by a lack of facilities, long ago threw itself wholeheartedly and as fully as possible into the war, and it is proud of the record it and its alumni and faculty have accomplished toward the winning of the war."

"The administration, like all other patriotic American groups and citizens, welcomes the day when the entire college can devote itself completely to rebuilding the war-ravaged world and to devoting its work toward the elevation of the living standards of the people through technological research and education."

Well informed observers assert that few colleges and universities in America can equal the war record of State College.

INFIRMARY
(Continued from Page 1)

staff, pathology, laboratory diagnosis, radiology, anesthesia, nursing service, pharmacy, medical records, and ethics.

Last year's State College hospital report, released today, showed that 14,820 non-bed patients were treated and that 908 students required hospitalization during the year. Three contagious diseases—mumps, measles and chickenpox—were encountered, and 1,227 students were immunized against typhoid fever, tetanus, and smallpox. Seven operations were made, and 381 r-rays were taken.

In addition to his duties at the hospital, Dr. Campbell also supervises the weekly examination of the college swimming pool and makes a monthly inspection of the college cafeteria to protect the health of State College students. Just to round out his 8-hour day—which oftentimes runs longer—Dr. Campbell practices medicine in Raleigh's Professional Building.

SIGMA XI
(Continued from Page 1)

N. W. Conner, J. O. Halverson, Werner L. Nelson, and Robert Hooke.

New associate members are Harry H. Murakishi, Mario E. Perez, and J. A. Ramos.

Dr. Cummings, in his message as retiring president, discussed the work of evaluating various practices of soil management on the inherent production and capacity of the soil. His subject was "Our Heritage, the Soil."

He showed through the use of lantern slides how the practices applied to corn production in the Middle West and to wheat production in the Great Plains.

GREAVES-WALKER
(Continued from Page 1)

of inestimable value to the Army and Navy," Dr. Greaves-Walker said.

He also supervised researches on magnesium castings and forgings, the results of which led to the construction of the Defense Plant Corporation of an 18,000-ton forging press and a \$3,000,000 plant to house it; and the development at Johns-Hopkins University of a spectrograph which records on a chart the percentages of the elements in test samples and thus makes this wonder instrument available to industrial plants without the services of especially trained personnel.

Among other researches personally supervised were the decarburization of alloy steels, changing the physical characteristics of mica by -ray bombardment in an effort to make greater quantities of North Carolina mica available for radio and radar use, improved resistor coatings which were accomplished by the use of silicone resins, the remarkable new ceramic plastics.

The Metals and Minerals Division cooperated with the Tennessee Valley Authority in its research program, and Dr. Greaves-Walker obtained the priorities on equipment necessary to construct the pilot plant erected at Muscle Shoals in which magnesium metals were produced from North Carolina olivine. One of the engineers on this important research was Gilbert Robinson of Cullomac, N. C., a graduate of the State College ceramics department, who worked with Dr. Greaves-Walker on the first research work on olivine done in this country.

The State College scientist was a member of the important Metals and Minerals Operating Committee which passed on and directed the purchase of all war minerals and metals in foreign countries, determined limits on stock piles, and authorized government expenditures for mines and metallurgical plants, some of which were included in the atomic bomb program.



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"God Is My Co-Pilot"
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6 — Big Days and Nights — 6

SEPTEMBER 24, 25, 26, 27, 28, and 29

30 - - Thrill Rides and Shows - - 30