

# THE TECHNICIAN

of NORTH CAROLINA STATE COLLEGE

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STATE COLLEGE STATION, RALEIGH, N. C., OCTOBER 26, 1945

Offices: 10 and 11 Tompkins Hall

## First Harvest Ball To Be Given By Veterans

### Dean Campbell Takes Three-Month Leave

#### To Study Wartime Textile Developments

Dean Malcolm E. Campbell, head of the School of Textiles at State College, has left his college post to conduct a three-month study of wartime textile developments and manufacturing processes in German colleges and universities, it was announced recently.

Dean Campbell, who will serve 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.

Following his tenure overseas, Dean Campbell, regarded as one of the world's foremost textile educators, will issue a report, along with other members of the commission, to the War Department's Quartermaster Corps. He will return to his duties at State College in January.

Prof. Elliott B. Grover, head of the Yarn Manufacturing Department of the State College School of Textiles, will act as dean of the School during Dean Campbell's absence.

### Major Cooper Speaks To Y.M.C.A. Cabinet

The Y.M.C.A. cabinet held its first meeting of the year last Thursday at a dinner meeting in the college cafeteria. Earl Bowen, president of the Y.M.C.A., called the group to order after they had finished eating. He then turned the meeting over to Major Cooper, who spoke for about an hour. He commended the group for their work and then turned the meeting over to the group. He then turned the meeting over to the group. He then turned the meeting over to the group.

Major Cooper spoke to the group about the qualifications for Y.M.C.A. officers and cabinet members. The first major qualification for an officer or cabinet member is that he be devoted to Christian ideals and the purpose of the Y.M.C.A. Interest alone is not enough, but real belief in Christian principles is necessary. Not only must an officer be devoted to Christian ideals, however, but he must also have the ability to get what he came to school to learn in addition to working with the "Y." for all is lost if the student cannot pass his work. The third major qualification is that of personality. A good officer must have the ability to draw others about him who will work efficiently and effectively. Major Cooper finished by saying that a good officer must be willing to devote nearly all of his spare time to "Y" work, because it is a big job requiring lots of time and work.

### Ceramic Engineers Hold First Meeting

The Institute of Ceramic Engineers had their first meeting since Greaves-Walker has come back to State on October 16. The meeting's purpose was to reorganize the student branch of the Institute of Ceramic Engineers on this campus.

Officers elected were H. S. Glenn, president; W. W. Sewell, vice president; Miss F. U. Wilson, secretary; F. N. Burns, treasurer; and H. S. Glenn and B. E. Littlefield, representatives to the Engineers Council with D. W. Sewell and G. E. Whitney as alternates.

Dr. Greaves-Walker gave a short talk on the history of Ceramic Engineering and the vast opportunities offered in this field of engineering. This tremendous industry, he said, varied from window panes to false teeth. He ended by telling the embryo engineers of the reputation the department here at State had on and off the campus in pre-war days, and that he hoped that this group could come up to and surpass all those who had gone before.

#### Notice

There will be a meeting of the A.L.Ch.E. on Tuesday, October 30, at 7:00 p.m. in Room 113, Winston. All chemical engineers are urged to attend.

### Faculty Committees Named By Harrelson

Faculty committees to perform the various functions of the institution during the current academic year were appointed on Wednesday by Chancellor J. W. Harrelson of State College.

The committees are:

Athletics: H. A. Fisher, chairman, A. J. Wilson, secretary, J. W. Patton, I. O. Schaub, and J. L. Stuckey.

Buildings and Grounds: M. E. Gardner, chairman, J. P. Pillsbury, secretary, W. F. Babcock, C. H. Bostian, J. K. Coggin, L. E. Cook, R. L. Cummings, R. S. Fouraker, T. R. Hart, W. N. Hicks, W. H. Hoffman, C. L. Mann, J. F. Miller, W. F. Morris, T. L. Nash, W. E. Shinn, Ross Shumaker, W. G. Van Note, and J. G. Vann.

Campus Government: W. N. Hicks, chairman, J. W. Cell, E. L. Cloyd, F. W. Lancaster, J. R. Ludington, J. D. Paulson, and G. K. Slocum.

College Extension: H. B. Briggs, chairman, E. W. Ruggles, secretary, C. H. Bostian, J. K. Coggin, R. S. Dearstyne, T. R. Hart, A. I. Ladu, Roger Marshall, C. G. Mumford, J. D. Paulson, and S. R. Winston.

College Government: J. W. Patton, chairman, E. L. Cloyd, secretary, C. H. Bostian, L. E. Cook, J. R. Ludington, W. E. Shinn, C. B. Shulenberg, and G. Wallace Smith.

Disciplinary: F. W. Lancaster, chairman, E. L. Cloyd, secretary, R. S. Fouraker, Roger Marshall, D. J. Moffie, and J. A. Rigney.

Fraternity Life: H. Page Williams, chairman, E. L. Cloyd, secretary, R. C. Bullock, A. M. Fountain, F. M. Haig, and H. H. Taylor.

Freshman Housing: C. G. Mumford, chairman, E. L. Cloyd, H. F. Dade, F. M. Haig, W. N. Hicks, T. L. Lynn, W. F. Morris, and H. Reid.

History: J. W. Patton, chairman, J. K. Coggin, A. M. Fountain, F. M. Haig, T. R. Hart, C. L. Mann, H. W. Taylor, and H. H. Taylor.

Honorary Degrees: Z. P. Metcalf, chairman, L. D. Baver, B. F. Brown, T. E. Browne, Malcolm E. Campbell, H. A. Fisher, E. G. Hoefer, J. H. Lampe, and I. O. Schaub.

Jobs and Self-Help: F. B. Wheeler, chairman, J. C. Clark, E. L. Cloyd, E. S. King, W. F. Morris, R. H. Ruffner, and H. E. Stewart.

Library: A. I. Ladu, chairman, Mrs. Reba D. Clevenger, secretary, D. B. Anderson, C. R. Bramer, J. M. Clarkson, R. W. Cummings, A. H. Grimshaw, L. R. Ludington, T. B. Mitchell, G. H. Satterfield, J. L. Stuckey, W. G. Van Note, and L. L. Vaughan.

Loans: E. L. Cloyd, chairman, W. L. Mayer, secretary, C. B. Shulenberg, and J. G. Vann.

Public Lectures: L. E. Hinkle, chairman, L. O. Armstrong, L. D. Baver, R. C. Bullock, E. L. Cloyd, E. B. Grover, E. G. Hoefer, E. S. King, C. D. Kutschinski, Roger Marshall, Rudolph Pate, J. W. Patton, R. B. Rice, G. H. Satterfield, G. Wallace Smith, and B. W. Wells.

Refund of Fees: E. L. Cloyd, chairman, W. L. Mayer, and J. G. Vann.

Research: Z. P. Metcalf, chairman, L. D. Baver, Malcolm E. Campbell, J. K. Coggin, Gertrude M. Cox, J. B. Derieux, A. H. Grimshaw, C. D. Grinnells, J. H. Lampe, J. F. Lutz, R. B. Rice, G. H. Satterfield, J. L. Stuckey, W. G. Van Note, and B. W. Wells.

Scholarships: E. L. Cloyd, chairman, L. O. Armstrong, L. R. Harrell, T. R. Hart, T. B. Mitchell, W. E. Selkingshaus, and J. G. Vann.

Social Functions: F. M. Haig, chairman, E. L. Cloyd, secretary, J. F. Miller, R. H. Ruffner, and G. Wallace Smith.

Student Members of Social Functions: John C. Boyter, E. R. Conway, III, W. J. Daniel, C. A. Fialer, L. W. Gatlin, B. E. Gupton, R. W. Kennison, W. K. Thornton, and R. E. Wood.

Student Publications Board: F. H. Jeter, chairman, Rudolph Pate, secretary, H. F. Dade, Roger Marshall, and W. L. Mayer.

Student Welfare: C. R. Bramer, chairman, A. C. Campbell, J. D. Clark, E. L. Miller, C. G. Mumford, W. A. Reid, G. K. Slocum, and J. L. Stuckey.

Traffic: W. H. Hoffman, W. F. Babcock, secretary, R. W. Cummings, C. G. Mumford, and W. G. Van Note.

Chancellor Harrelson said that student members of the Student Publications Board, the Public Lectures Committee, and the Student Welfare would be appointed later.

### Sponsors Of Veterans Dance At State College



Pictured above are the sponsors for the Veterans Dance to be held here tomorrow night. They are: Laverne Witner of Raleigh with W. E. Johnson of Asheville; Dorothy Tippet of Raleigh with Nelson White of St. Simons Island, Ga.; Bernice Roe of Concord with Bill Roe, president of the Veterans Association; Flossie LeMay of Henderson with Alton LeMay of Henderson; Dorothy Patrick of Charlotte with James West of Charlotte; Sarah Wilson of Raleigh with James Adkins of Summerfield; and Shirley Henderson with Bill Henderson of Williamsburg, Va.

### Dr. Deming Addresses New Statistics Class

Dr. W. Edwards Deming of Washington, D. C., mathematical adviser of the Bureau of the Budget, was the principal speaker at yesterday's session of the course on Industrial Statistics and Quality Control at State College. His subject was "The Statistical Concept of Population and Its Practical Importance."

Other lecturers, who appeared on yesterday's program before 25 representatives of some of the giant industries of the United States and Canada, included Prof. Ralph Fetter of the Department of Mathematics of the Georgia School of

Technology, and Paul Peach, industrial statistician of the Institute of Statistics at State College.

Daily sessions, which begin at 8:45 a.m. and extend to 5 p.m., will continue at the college through today. Statistical methods designed to reduce waste, increase efficiency, enhance quality, and accelerate re-conversion are being considered by the industrial representatives, who are seeking technical guidance and instruction from State College to aid them in their manufacturing processes.

The course is sponsored by the State College Extension Division, directed by Edward W. Ruggles, and by the College's Institute of Statistics, headed by Prof. Gertrude M. Cox.

### Final Plans Made For Ag Barnwarming

The Barn Warming to be held by the Ag Club November 17 will be closed. After a long discussion, the members felt that in order to promote better attendance to all Ag Club activities, closer fellowship, and more unity in general the annual dance should be open only to Ag students.

The committee chairmen were appointed as follows:

Decorations, L. B. Miller, chairman; invitations, J. P. Strode, chairman; refreshments, J. T. Moss, chairman; gate, Tom Morgan, chairman; band, Joe Cline, chairman; publicity, Jimmy Wilson, chairman.

Tom Morgan reported that a company was sending a representative in regard to the Ag Club keys.

### Agricultural Club Officers At N. C. State College



Fall term officers of the Agricultural Club at N. C. State College, largest departmental organization on the campus, are shown above. They are: Thomas Haislip of Oak City, president; M. E. Miller, Jr., of Merriitt, vice president; Paul Jordan of Wilmington, secretary; Earl M. Stubbs of Henderson, treasurer; Philip Taylor of Enfield, program chairman; and James A. Wilson of Scotland Neck, reporter.

### Woody Hayes Signed To Play Tomorrow Night

By JAMES WEST

#### Wolpack Travels To Norfolk For W&M Tilt

State College's fighting Wolpack left yesterday morning for Norfolk where they will engage the William & Mary Indians, who are reported to be the second strongest team in Virginia. The Indians are fresh from a 13-9 victory over the powerful Cadet eleven from the Virginia Military Institute. It is the same Cadet team that upset the Wolpack on October 13 by the score of 21-14. The Wolpack will have their hands full of trouble if they play the way they were playing at the first of the year but they will be very hard for powerful William & Mary eleven to stop if they play with the same ability and eagerness that they exhibited in Riddick Stadium last Saturday night.

The switch in the line up that occurred before the Wake Forest game is expected to be left as it now stands, with the State boys expected to take the field as follows: Courts and Edwards at the ends, Gibson and Turfill at tackles, Saunders and Gaeta at the guard positions and Naugher, Richkus, Worst, and Turner in the backfield to round out the squad.

### Grover Speaks At Meeting Of Phi Psi

Professor Elliot B. Grover, recently returned from Germany where he inspected the textile industry for the T. I. C., an organization representing the U. S. State Department and the G-2 of the Army and Navy, spoke at a recent meeting of Phi Psi, an honorary textile fraternity.

Professor Grover told of the destruction of nearly all the large cotton and rayon plants by Allied air and artillery forces. He said that in spite of all the rumors about German technical superiority, he found the Germans far behind in their methods of production. He told of the great amount of textile machinery that has been removed by the Russians in the Russian occupied zone. "The internationally known Material Testing Laboratory of Berlin has been stripped of all equipment by Russian troops, but valuable records of experiments were found and turned over to the T. I. C.," Grover stated.

Among many items of important information acquired by Grover was a new method, developed by the Germans, for insulating wire with rayon. They used this process extensively in airplane engines.

The chaptermen and sponsors will be entertained at an informal dinner at the S&W Cafeteria Sunday evening at 5:30 o'clock and the sponsors will be presented with corsages of red roses. This is the first of many social events planned by the veterans and the cooperation of the many campus organizations has been gratifying, and a good time is planned for all.

### Halloween Party

All of the State College Baptists are invited to a Halloween party at the First Baptist Church. If previous Halloween parties at the First Baptist Church are considered a barometer, the air in the lower auditorium will be filled with gaiety. There will be games and lots of refreshments. A few girls will be present—er—the usual ratio is about three girls for each boy. If it's fun you want, try the Halloween Party at the First Baptist Church. The time is 7:30 p.m.

### Sullivan And House Chosen To Head Staffs Of Pinetum

Last week the Forestry Club had its first meeting since 1943. Before the war the Forestry Club was one of the most active organizations on the campus, but when the Forestry Department decreased so drastically in size because of the war, it was forced to discontinue operation. At the first meeting the following officers were elected: Glenn Spruill, president; Charlie Hartsock, vice president; Jay Hardee, secretary; Norman Hodul, treasurer; Bill Ellis, sergeant-at-arms; and Doug House, program chairman. Professor G. K. Slocum was elected faculty adviser.

It was also decided at this meeting that the Pinetum would again be published this year. Ed Sullivan, returning senior, will head the annual as editor and Doug House will be the business manager. The Pinetum is the forestry annual and is published in the spring term.

### Attention, All Textile Students

The Tompkins Textile Society will meet Tuesday night, October 30 at 7 o'clock in the YMCA. There will be a speaker and some important business at hand.

The Veterans Association of N. C. State will be host at their first annual Harvest Ball in the Frank Thompson Gymnasium, Saturday night, October 27, 1945, from 8:30 to 12 p.m.

The Veterans' organization is the youngest of the social groups on the campus, having been organized during the last winter term. This is their first social event open to the student body as well as the first social event of the new school year. The Harvest Ball is to be an annual event and plans have been made for a gala evening. Woody Hayes and his orchestra has been contracted to furnish the music for the evening and Miss Mary Lee, charming and talented young singer, will carry the vocals. This is the first time that this orchestra has played on the campus. His orchestra is composed of thirteen talented musicians among whom is Tom Horn from Henderson who formerly played in the same orchestra with Harry James. They play regularly at the Raleigh Country Club and annually for the Southern Lumbermen's Convention held at Pinehurst and Needle Pines. They are rated by many as the best orchestra in this section of the State.

During the war, elaborate decorations in the gymnasium were not allowed. These restrictions have now been lifted and the gym will be decorated in the pre-war manner. The decorations center around a mammoth "Y" from which streamers extend to the balcony. In the center of the gymnasium a large opened parachute is suspended from the ceiling with streamers of crepe paper extending in all directions. The bandstand has been repainted for the occasion with a harvest motif. Tickets can be secured from W. E. Johnson, or any member of the Veterans Association, or at Dr. T. W. Wood's office, 104 Peele Hall for \$1.00 plus tax.

Chaperons for the occasion will be Dean and Mrs. L. L. Vaughn, Dean and Mrs. E. L. Cloyd, Dr. and Mrs. T. W. Wood, and Mr. and Mrs. H. W. Taylor. The sponsors are: Bernice Roe of Concord with Bill Roe of Asheville, President; Flossie LeMay of Henderson with Tony LeMay of Henderson, Vice President; Dorothy Patrick of Charlotte with James West of Charlotte, Treasurer; Dorothy Tippet of Raleigh with N. M. White of St. Simons Island, Ga., Committeeman; Sarah Wilson of Raleigh with Jim Adkins of Summerfield, N. C., Committeeman; Laverne Witner of Raleigh with W. E. Johnson of Asheville, Committeeman.

The chaperons and sponsors will be entertained at an informal dinner at the S&W Cafeteria Sunday evening at 5:30 o'clock and the sponsors will be presented with corsages of red roses. This is the first of many social events planned by the veterans and the cooperation of the many campus organizations has been gratifying, and a good time is planned for all.

### ASME Holds Initiation For Six New Members

The student branch of the American Society of Mechanical Engineers held the fall term initiation Tuesday night in Room 102, Page Hall with six mechanical students being initiated. The new members are: Robert Rose, Philadelphia, Pa.; Robert E. Rector, Murphy, N. C.; William S. Griffith, High Point, N. C.; Richard H. Duncan, Greenville, N. C.; and Edward G. Sellers, Charlotte, N. C.

After the meeting was opened the initiation ceremonies were turned directly over to the secretary, Bob Green. The initiation of the members took approximately one hour.

With the returning of former ASME members from the armed services, the students' branch is gradually climbing back to the pre-war membership and social activities. The society is planning interesting programs during the future fall meetings.

The new members will receive ASME membership cards, monthly publications of the society magazine, Mechanical Engineering, and will be eligible for inspection trips sponsored by the ASME.

The new members are congratulated by all of the old members and are looking forward to successful society undertakings during this fall term.

#### Notice

A meeting of co-eds will be held Monday, October 29, at 7:00 p.m. in the YMCA. The purpose of this meeting will be to elect officers.



## THE TECHNICIAN

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By the Students

State College



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## Gladly We Say . . .

## "Farewell To The A. S. T. P."

It is heard from many A.S.T.P. boys that after a long stay on the State campus the A.S.T.P. unit is to be broken up tomorrow. From a student's viewpoint, there is no sorrow at their passing, for with the Army rulings prohibiting them from participating in any campus activities or athletics, they have been just a nuisance. They have taken up space in some of the most centrally located dormitories; they dominated the best portion of the cafeteria for a long time; they were given the best instructors, while the civilian students were, in many cases, taught by temporary or substitute instructors; and they stirred up considerable student sentiment against them by continually rooting for the opposing teams at all the athletic games. In no way did they have the cooperative spirit and attitude displayed by the Pre-Flight unit which was dissolved here in the summer of 1944.

Though the members of the Army Specialized Training Program were given advantage of an education at a school which is widely recognized for its merits and valuable training for which civilian students must pay, they were very, very seldom heard to say anything good about the College. We know that there were a few boys here in the A.S.T.P. who did make some definite contributions to the school and we wish to thank those who participated in several concerts which were given under the direction of Major C. D. Kutschinski.

We also realize that from the Administration's viewpoint, the A.S.T.P. was a benefit to State College. It was a compliment to the school that the Army kept the A.S.T.P. here for such a long time. From a speech made this past summer by Chancellor Harrelson, it is seen that, on a comparative basis, State College established an excellent record so far as its teaching ability is concerned.

Though we know that the A.S.T.P. unit helped the school in many ways, we are still happy that now nearly the entire campus and the undivided attention of the faculty can be devoted to the civilian students.

## Hats Off!

Our hats are off to the football coaches and the members of the football team for presenting such a gallant fight against a strongly favored Wake Forest team last Saturday night. Our hats are off, too, to the student body for showing such strong school spirit at this game. Though the Wolfpack was slated to lose this contest by at least three touchdowns, neither the team nor the students lost faith in themselves. Therefore, when the game ended, the statistics showed that the Deacons were lucky to have won by a slim margin of one point.

If we continue to maintain a strong spirit and an unshakable faith in ourselves, it is very likely that in the future we will again be able to have the strong athletic teams that State had in the past. This applies not only to athletics but also to all other things connected with the college.

Keep it up, fellows!

## Faith Of An Engineer

(Editor's Note: This is an editorial that appeared in the Iowa Transit, the student engineering magazine of the University of Iowa. It is written for engineers, but, by substituting the proper word, it can be applied to any profession or occupation.)

I am an Engineer. In my profession I take deep pride but without vain glory; to it I owe solemn obligations that I am eager to fulfill.

As an Engineer, I will participate in none but honest enterprise. To him that has engaged my services, as employer or client, I will give the utmost of performance and fidelity.

When needed, my skill and knowledge shall be given without reservation for the public good. From special capacity springs the obligation to use it well in the service of humanity; and I accept the challenge that this implies.

Jealous of the high repute of my calling, I will strive to protect the interests and the good name of any engineer that I know to be deserving; but I will not shrink, should duty dictate, from disclosing the truth regarding anyone that, by unscrupulous act has shown himself unworthy of the profession.

Since the age of stone, human progress has been conditioned by the genius of my professional forbears. By them have been rendered usable to mankind Nature's vast resources

of material and energy. By them have been vitalized and turned to practical account the principles of science and the revelations of technology. Except for this heritage of accumulated experience, my efforts would be feeble. I dedicate myself to the dissemination of engineering knowledge and, especially, to the instruction of younger members of my profession in all its arts and traditions.

To my fellows I pledge, in the same full measure I ask of them, integrity and fair dealing, tolerance and respect, and devotion to the standards and the dignity of our profession; with the consciousness, always that our special expertness carries with it the obligation to serve humanity with complete sincerity.

## GLEANINGS

Well, well, well!!! Another week has passed, as it usually does every seven days, and we have more dirt to print.

Who were the good looking foresters who offered to rescue "Poco-hontas" while she was rooting up in the magnolia tree before the Wake Forest game last Saturday night. We are not sure but we think the initials of one of them was Ed Sullivan. Incidentally, we hear that old Ed is working on his second date since last April.

We are wondering who Howard "Pee-Wee" Turner is sponsoring for membership in the Monogram Club. Is she a male or female? Certain Sigma Pi's spent a sober week end due to the presence of several parties. . . . Congratulations, Dads! Certain PiKA's didn't.

Congratulations to Gene House (you have to be on The Technician staff before you can get something nice said about you), the last person off the field Saturday night. Possibly when he advances from the B. D. (Basic Division to you, freshman) he'll be next to last. Rumor has it that self-same House had a difficult time keeping his respective females on the straight and narrow road.

Old Willy Gatlin, the high potentate (a little dictionary work, no less) of State College, pulled the "boos" from Wake Forest Saturday night when he mentioned the perfect cooperation (he took his hat off) and friendliness (put his hat on again) which existed between State College and Wake Forest. More power to your prey.

By the way, Joe Cline of unmentionable fame (wine, women, and song) was seen up at Andy's last Saturday night with the most gorgeous "babe", or pardon us, we mean "babes." Incidentally, Joe was drinking milk and iced tea.

Flash!! Johnny Johnson, our original fourth-year freshman, clogs up the phone booth at the Y every night. Wonder why?

Suggestions have been made that we superimpose P. W.'s on certain parts of the P. W.'s girls' anatomies as is done in the regular prisoner of war camps—you know, from the front and the rear you can read P. W.'s.

It is weren't for the P. W. gals there would be plenty of beer at Stoney's. "Tis hard that these self-same women are practicing singing. They are contemplating their first radio appearance with a "Thrill of a Romance" as their song. What does that tell us? Maybe the State boys are getting around more.

Last week Carolyn and "Poco-hontas" (more news about pig tails) were digesting their dinner in the cafeteria (if it's possible). During the conversation, Carolyn said, "I want to see a W-O-L-F-I!" Walter Farrior and John Pollock were breezing by, and John, hearing the remark, turned and pointed to Farrior and said, "There's one." Walter, not knowing the score, looked around and Carolyn said in a more than natural falsetto voice, "Are you one?" Hmmmm, that reminds us of a joke. If your curiosity is aroused come to see us and we'll tell it to you.

We wonder how Brother Johnson of aquatic fame (?) rated a week end date with a blonde from W. C. who's supposed to be pinned up to a Kappa Sig over at the Hill. Hubba, hubba.

We hear that Grover "Scheikeelgruber" Burchette doesn't appreciate P. W. fellows sashaying back and forth across in front of the machine design class. He seems to think that it is extremely disconcerting to the serious seniors.

It seems that the foresters are mighty men who never fool with trifles—they always use their rifles. That makes good sense.

Every "ole" guy and gal on the campus knows Doug House. But do they know his true name is Douglas Housekingsburg. It seems as though Doug dropped the "burg" off when he entered Beaufort grammar school. When he entered Beaufort High School, he dropped the "gins" from his name; and before he came to State College, he eliminated the "sky." Thus, Doug cut his name down to less than one-third of its actual size. Rumor has it that he's going to pick up the "gins" again—or has he already done it?

Here is a letter that came from one of our eager co-eds:

Dear Editor,

They told me when I decided to come to State that I would be surrounded by wolves. I seems that either I don't have what it takes or the wolves of State are fast becoming a disappearing animal. Who are they hiding from? Where are they hiding? They don't ever come out at night anymore. Frankly, I'm disappointed. Do you think that it could be they don't like the co-eds or are they shy—horrors, that would be the end of State's reputation. Dear Editor, please tell me what has happened to the wolves.

All my love,

LIZ.

Incidentally, we snitched that letter from the editor.

What redneck co-ed is crazy about a certain football player and sits regularly across from him in the cafeteria, drooling—the food ain't that good. These State boys have certainly changed their ways—nowadays they are robbing the cradle instead of filling it.

'Til next week. . . .

Signed,  
THE LONELY FOUR.

## FROM OTHER CAMPUSES

(By Associated Collegiate Press)

Tradition, or a part of it, was discarded at Miami University, Oxford, Ohio, for a newer and lustier form of pajama parade. For 10, these many years the freshmen men have been content to paint the water tower and to serenade the freshmen women from beneath their dormitory windows, but not so the forty-niners.

Oxford College, citadel of convention, was stormed by striped and polka-dotted invaders. One husky broke the lock on the main door, some one else more ingenious loosened the hinges on the south door, and the tide rolled in.

Past the suites of the house residents, up into the girl-jammed, trunk-crammed corridors charged the fearless freshmen. Down second floor, up the stairs, across third floor, back through the second floor hallway and out the sagging doors, the stampede ran its course, leaving ravaged rooms and terrified roommates in its wake. This said an opportunist trapped one of the stragglers in her room, but he screamed so much she finally had to let him go.

The doors are back on now, and the halls are swept clean of debris, but the memory of the third of many footstep still lingers in the memories of freshman women.

## SHARPS and FLATS

By HOWIE KADEN

The first real signs of jazz appeared in the New Orleans street parades. New Orleans, a city rich in tradition and color, had numerous parades for many various occasions. Always preceding them was a colorfully dressed Negro band, playing bright, sprightly marches. Many funeral processions had them. Their slow, moaning melodies lent a sad air to the occasion.

When not playing for the parades, these musicians would gather in the back room of a saloon, and there they would play for their own enjoyment. The instruments usually consisted of a clarinet, a cornet, a trombone, a banjo, a set of drums, a piano, and a tuba. In the early years, the bass drum and snare drum could not be played simultaneously. That necessitated two men to play them. Later on, the guitar replaced the banjo, and the bass viol took the place of the tuba. The tempo of the march, four-fourths, was prevalent throughout these impromptu performances. None of the music was written; in fact hardly any of the musicians were able to read a note. The type of music they played is known as New Orleans jazz. It is sometimes called by its other name, Dixieland. The tempo is march tempo, only faster. The theme is introduced by all the instruments, played by the ensemble.

After a while, the individual men take their own solo passages, and that is where they express their feelings through the medium of music. As the years progressed, many Negro musicians migrated to the North, settling mainly in Chicago. They became firmly rooted in their new environment, and infiltrated into the music of that day. They immediately became popular with the young white boys who were playing in the high school bands, and began to teach them all about the new music.

At the time of Prohibition, jazz was firmly entrenched in America. All the important speak-easies had a jazz band. It usually consisted of approximately six men. It was during this era that the boogie-woogie style of piano playing entered the scene. It is characterized by the standard eight beats to a bar. During Prohibition, people used to have illicit parties where they would drink "bootleg" gin to their hearts' content. Such parties were called "rent parties," because the proceeds from them would be used for payment of the rent. A Negro piano player was usually hired to furnish the music. Because of the terrific amount of noise that was present, the pianist had to play a very loud bass with the left hand, while using the right for improvisation. This boogie-woogie was born in the dark, secretive days of Prohibition.

The influence of jazz was so great in Chicago that all the young, budding musicians began to play it. The Austin High School Gang, a group of young boys from that high school, began to take up the new jazz. They began to record, and at the present time, they are among the greatest living jazz artists.

Around the year 1929, these young boys, now men and accomplished musicians, went to New York. To understand the situation in music around that time, it is necessary to appreciate the fact that the public at large did not have much contact with the men who actually played the music. The only name mentioned was that of the man who led the band. Consequently, most of the really fine players of the time were known only among musicians.

## CAMPUS CENTRIFUGE

## Atomic Bomb

Those persons that constantly wonder if there is a guiding hand determining man's progress in this universe, might consider the provisions of the atomic bomb, as covering the secret of atomic energy. For years scientists had been excited over the amazing and likely possibility of man getting at this infinite source of energy. Either mankind would attain a world wide peace, or the whole world would explode in flame. There were and still are the two alternatives.

If this discovery had been made prior to the great war, chances are that we would have had the catastrophe. Evidently there is much danger that some made scientist or other person will find a way and send us all to Kingdom Come, but the world's chance to achieve the ultimate in economic and political efficiency is the best that could be expected. Only mankind has the bombing of Hiroshima, had the world really banded together with honest intentions and sound prospects of universal cooperation. All the terrible, bloody experience of previous centuries had been required for enough people to realize there can be only one "sovereign" state without wars. Where there is intercourse, the rights of others must be considered along with one's own. Now wars must be ceased, forever. The way was providentially already marked.

Another point for thanksgiving is that the world's "mediator" power first found the secret. Whether the U. S. has the ideal theory of government or not, it is the world's most contented nation. A covetous power would be tempted to take advantage of the secret more drastically than America has evidenced. Possibly such fortune is one more sign that the Lord has planned the march of man from hunting to inter-planetary touring.

## Painting Wake Forest

Although no direct evidence has been submitted that State College students are responsible for the

## FACULTY FACTS

DEAN B. F. BROWN

Dean Benjamin Franklin Brown, dean of the Basic Division, was born on May 11, 1881, in Crescent City, Ill. He attended both grammar and high school here. At the age of eighteen, he entered Illinois Wesleyan University at Bloomington. Three years later he entered Northwestern University, from which he graduated in 1906 with a Bachelor of Science degree.

For three years after his graduation, Dean Brown taught in the high school at Potosi, Mich. The next eight years were spent teaching at the high school in Lansing, Mich. The last two of these years he held the position of principal. In the meantime the Dean had done graduate work summers and otherwise at the University of Michigan and the University of Wisconsin.

From 1917 until 1920, Dean Brown was at Texas Agricultural and Mechanical School. After this he came to North Carolina to work in the Chief Division of Markets in connection with the State Department of Agriculture. He also served as the State Warehouse Superintendent.

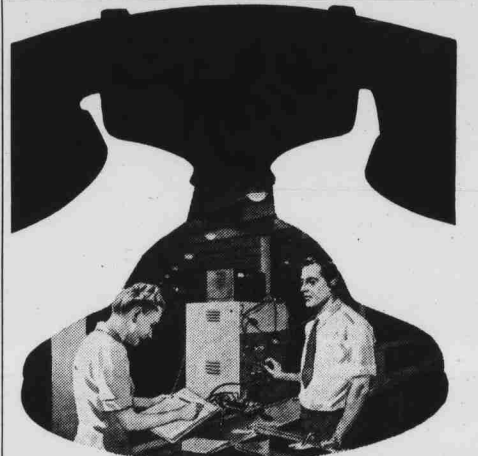
On July 1, 1923, he became the Dean of the School of Science and Business at State College. When it was formed in 1937, Dean Brown was appointed to head the Basic Division. All freshmen and sophomores in the College are registered in the Basic Division, the total for this year being six hundred freshmen and four hundred sophomores out of thirteen hundred students.

The only hobbies which particularly interest Dean Brown are traveling and taking pictures of his travels. He has been in every state in the Union except California, and has also traveled in Canada and Mexico.

Dean Brown has three children, two daughters and a son. His son is a graduate of State College and is, at present, the business manager of the American Embassy of the FEA in London. Both of the Brown's daughters are married, their elder daughter having two children.

A few of the organizations of which Dean Brown is a member are: the Raleigh History Club, Watauga Club, Southern History Association, American Economic Society, Lions Club, Southern Economic Association, American Association of University Professors, National Policy Committee Association, and Raleigh Housing Authority.

The Dean says that all he does is sit back and let everyone else do the work, but Miss Greene, his secretary, denies that this is true. Unlike some stern professors, Dean Brown likes to tease and often plays jokes on his wife.



# Birthplace of 50,000 RADARS

TWO years before Pearl Harbor the Government asked Bell Telephone Laboratories to help perfect radar as a military instrument. The Bell System, through the Western Electric Company, its manufacturing branch, became the nation's largest supplier of radar systems.

Bell scientists designed and developed many different types of radars—each for a specific job. One particular type was standard for B-29s in the Pacific for navigation, target location and high altitude bombing. Another directed all Navy guns over five inches.

This is not surprising, for radar development and production stem from the same roots that produced and continue to nourish this country's telephone system.

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224 Becton





What a game! That was the expression that was on every lip as a capacity crowd filed out of Riddick Stadium last Saturday night after the State football team had all but beat the Wake Forest Deacons. Even the most optimistic persons did not give the Wolfpack an outside chance of coming within two touchdowns of the Baptists, and most observers were predicting a runaway for the Deacons. Coach Feathers' boys completely fooled everyone in outplaying the mighty Deacons in every department but the scoring. This moral victory for the State seemed to put a new life into the team, which now is eyeing the November 10 date with Duke in Durham. It seems so improbable that State could even hope to come close to beating the Blue Devils, but with George Clark and Coach Knotts, along with Jim LaRue, are leaving Duke after the Georgia Tech game on November 3. Coach Knotts' Duke squad will be playing their team game without Clark's and Knotts' services when they meet State. So, the words on everybody's lips now are "BEAT DUCK!"

Tonight, the Wolfpack travels to Norfolk for a night game with William and Mary, and the next day, the team of Virginia. The Indians eked out a 13-9 victory over VMI last Saturday. If Coach Feathers can have his boys playing the brand of ball they lost Saturday night, the Techs should win. If they don't, we believe that the game will be a tossup, with neither team running away with the other, but with the Indians holding a slight edge.

Duke travels to New York to battle mighty Army tomorrow afternoon. Word from West Point leads one to believe that the Cadets are out to run up as big a score against Duke as they possibly can. Our choice is Army by at least 28 points.

Here are this week's predictions:

Team	Doak	Reeve	Pate	Dillon
South-Carolina-Clemson	Clem	Clem	Clem	Clem
N. C. State-W&M	W&M	NCS	NCS	W&M
Army-Duke	Army	Army	Army	Army
California-Col. of Pac.	Cal	Cal	Cal	Cal
Catawba-Richmond	Cat	Cat	Cat	Cat
Cincinnati-Kentucky	Ky	Ky	Ky	Ky
Columbia-Brown	Col	Col	Col	Col
Florida-Southwest La.	Fla	Fla	Fla	Fla
Georgia-Alabama	Ga	Ala	Ala	Ala
Ga. Tech-Auburn	Tech	Tech	Tech	Tech
Holy Cross-Colgate	HC	HC	HC	HC
Illinois-Michigan	Mich	Mich	Mich	Ill
Indiana-Tulsa	Ind	Ind	Ind	Ind
Kansas State-Oklahoma	Okla	Okla	Okla	Okla
Lafayette-Bucknell	Buck	Buck	Laf	Buck
LSU-Vanderbilt	LSU	LSU	LSU	LSU
Mich. State-Marquette	Mar	Mar	MS	Mar
Minnesota-Ohio State	OS	Minn	Minn	Minn

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October 26, 1945

# Deacs Win Over Wolfpack, 19-18

## THE INTRAMURAL FRONT

The PIKA's opened their football schedule by downing the SAM's 22-0. Lampke's passing and running was the highlight of the game. He passed to Churn for the opening touchdown early in the first period. Bingenheimer received a pass in the end zone for another touchdown late in the first half. A safety gave the PIKA's two more points, building the score to 15-0 at halftime. The PIKA's fell on the opening kickoff of the second half for their final score. The PIKA's led in first downs, 8-1.

The Sigma Pi's pushed across a touchdown in the third quarter to score a 6-0 victory over the SPE's in the opening game of the season for both teams. Rose's passing and running were the outstanding features of the victor's attack. He passed to Moss for the score. The SPE's threatened several times, but could not reach pay dirt. Harper and Lassiter starred for the losers.

Upper Beeton won from 2nd Bagwell by forfeit. Gold Dorn had an easy time in downing Welch 25-7 last Wednesday afternoon. Herring was the star for the winners. He intercepted a Welch pass and raced 60 yards for a touchdown. The loser's score came when Turner recovered a fumble in the Gold end zone.

The Sigma Chi's, winners in the fraternity football championship last year, opened their current schedule by defeating a weak Delta Sig squad, 20-0. The loser's defense crumbled on several occasions, and allowed the Sig backs to pick up numerous first downs. Colhard's passing was the highlight of the game. He passed to Plank and Cooke for two scores, and he dashed 20 yards through the Delta Sig defense for the other score. Hughes was the star for the losers. The Sigma Pi's won their second victory of the season by trouncing the SAM's

30-0. The Pi's scored a touchdown in each of the first three periods, and two in the last quarter for their 30 points. The SAM's were held with their backs to the wall throughout the entire game, never threatening at any point. Moss and Monroe starred for the winners.

The PIKA's had a field day at the expense of the ALT's last Monday afternoon by walloping the losers, 48-0. The ALT's were at a disadvantage to begin with, as they had only six men out to play. The winners scored each time they gained possession of the ball, scoring seven touchdowns, four extra points, and a safety.

The PIKA's and Sigma Pi's, who have played the most outstanding ball in the fraternity bracket to date, will play next Tuesday afternoon on Field No. 1. The championship of the fraternity race may be at stake.

In the volleyball bracket, South Watauga won by default from 2nd Bagwell.

Lower Beeton topped Gold in two straight tilts, 21-9 and 21-0.

The SAM's walloped the Sigma Pi's in two straight games, 21-0, and 21-3.

The PIKA's beat a stubborn Sigma Nu five-man team, 21-19 and 21-15.

Upper Beeton nosed out Welch in three tilts, 21-18, 5-21, and 21-11.

First Bagwell beat North Watauga, 21-5, and 21-17.

Third Bagwell defeated First Alexander, 21-13, and 21-18.

Lower Beeton owned Second Alexander, 21-12, and 21-7.

The SPE's defeated the SAM's 21-15, and 26-24, in two exciting games played Tuesday night.

The Sigma Chi's remained undefeated in the volleyball bracket by downing the Sigma Nu's, 21-15, and 21-12.



Reprinted from the November issue of Esquire

Mississippi-Arkansas	Ark	Miss	Miss	Ark
Missouri-Nebraska	Neb	Neb	Mo	Mo
Notre Dame-Iowa	ND	ND	ND	ND
Northwestern-Purdue	Pur	Pur	Pur	Pur
Penn-Navy	Navy	Navy	Navy	Navy
Pitt-Temple	Pitt	Temp	Pitt	Pitt
Princeton-Rutgers	Prin	But	Prin	Prin
Syracuse-Dartmouth	Dart	Dart	Syr	Syr
Tennessee-Villanova	Tenn	Tenn	Tenn	Tenn
Texas-Rice	Tex	Tex	Tex	Tex
Texas A&M-Baylor	A&M	A&M	A&M	A&M
TCU-Oklahoma A&M	TCU	A&M	A&M	A&M
UCLA-SMU	SMU	SMU	SMU	SMU
UCLA-Oregon	Ore	UCLA	CLA	Ore
VPI-Virginia	Va	Va	Va	Va
Washington-Southern Cal.	SC	SC	SC	Wash
Washington State-Idaho	WS	WS	WS	WS
West Va.-Maryland	Mary	Mary	W Va	Mary
Yale-Cornell	Corn	Corn	Corn	Corn

PATRONIZE  
OUR  
ADVERTISERS

AMBASSADOR

Friday and Saturday

James Cagney in

"BLOOD ON THE SUN"

Sunday, Monday, Tuesday

Joan Davis - Jack Haley

Gene Krupa in

"GEORGE WHITE'S

SCANDALS"

One Week Starting Wednesday

"WEEK END AT THE

WALDORF"

Starring

Lana Turner - Ginger Rogers

Van Johnson - Walter Pidgeon

Helping Others To Help Themselves

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

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



Farmers Cooperative Exchange

RALEIGH, NORTH CAROLINA

## Gas Turbine Drive Promising For Air Transport In America

Compact and superpowerful gas turbines driving propellers may have a wider application than jet propulsion for the big long-range air transport planes of the future, according to engineers of General Electric who have had a prominent part in the development of the jet engines now being supplied by the company to the AAF.

This prediction, along with a careful analysis of the most attractive applications for several new combinations of aircraft motive power, was made by S. R. Puffer and J. S. Alford, both of General Electric, in a technical paper titled "The Gas Turbine in Aviation—Its Past and Future," presented before members of the American Society of Mechanical Engineers in session here.

High-speed jet propulsion, according to the engineers, may be relatively expensive for single flights of approximately 500 miles. For greater distances, the cost becomes higher but could be justified on the basis of faster service. These conclusions were based on several assumptions, among them the use of fuel cheaper than high octane gasoline would be used. For flights not greatly in excess of 500 miles, the cost of jet-propulsion transport is only slightly higher than that of present-day transport, the engineers said.

The most likely fields for the different engines and combinations of engines according to G-E engineers follows:

1. For the utmost in speed, disregarding other considerations, jet propulsion is by far the best performer.

2. For operation at extreme ranges, the internal combustion engine compounded with an exhaust gas turbine gives by far the best performance. This compound engine combined with water injection provides power plants with a tremendous reserve of power at sea level and at all altitudes up to the critical, or the point where the turbine nozzle pressure starts to fall off. This is reflected in a very high rate of climb, surpassing that of any other power plant.

3. The gas-turbine-propeller combination provides a power plant which, on account of its low specific weight, gives a performance approaching that of the jet unit except at very high speeds, but with much better range.

4. For operation at extreme altitudes, the present internal combustion engine, equipped with a modern turbo-super-charger and properly utilizing the exhaust gas through a jet, is nearly equal to the jet-propulsion unit in speed, and far surpasses it in climb.

All of the design and operating advantages obtained in the G-E jet engines will carry over in the case of a gas turbine driving a propeller, according to Puffer and Alford. Such features as simplicity, minimum of vibration, for example, will also characterize the gas turbine power plants.

Performance of the gas turbine does not decrease at high altitudes as much as might be expected, according to the engineers. They explained that while the power or thrust output does decrease with decreasing air density, the cold air at high altitudes which has a favorable effect on the over-all gas turbine output partially makes up for the lack of supercharging.

## STATE

Friday and Saturday

Pat O'Brien and Rudy Vallee in

"MAN ALIVE"

Late Show Saturday Night and

Dennis O'Keefe - Helen Walker in

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## State Surprises Wake Forest In Close Game

### Army Still Rated First By Associated Press

Undeclared Notre Dame, which has been rolling up impressive scores in recent weeks, moved into second place in the weekly football poll conducted by the Associated Press. The Fighting Irish moved ahead of undeclared Navy.

Army's powerful Cadets once again dominated the voting, grabbing 101 of the 112 first-place votes and not being placed lower than third on any ballot.

Navy, generally considered to be Army's only real threat, lost in the balloting because of a rather sloppy showing in scoring a 20-6 victory over Georgia Tech on Saturday night. The Middles had their hands full with a Georgia Tech team that wasn't supposed to have given the sailors much of a scrap.

Purdue made the biggest advance of the week, moving into fourth place because of its surprising 13-13 conquest of previously undefeated Nebraska State. The Buckeyes dropped down to the No. 12 spot.

Minnesota got one first-place vote and was listed fifth. The Gophers scored an easy victory over Northwestern.

Unbeaten Alabama is sixth. The Crimson Tide scored a 25-7 victory over the Tennessee Vols, who dropped their first regular-season game in two years.

The high-scoring Penn Quakers, who take on Navy this week in Philadelphia, are in the seventh spot and were followed in order by Indiana, Texas, and St. Mary's.

Army has a fairly tough assignment this week, meeting Duke. The Blue Devils hold the No. 19 spot in this week's rating. Notre Dame has an easy assignment in Iowa, who has been kicked around considerably this year.

Purdue takes on Northwestern, and Alabama meets Georgia. The ratings: Army (101) 1,108; Notre Dame (4) 860; Navy (5) 803; Purdue 702; Minnesota (1) 696; Alabama 668; Pennsylvania 339; Indiana 280; Texas 199; St. Mary's (1) 119.

Second team—Columbia, 94; 12—Ohio State, 69; 13—Louisiana State, 55; 14—Tulsa, 41; 15—Holy Cross, 35; 16—Michigan, 33; 17—Oklahoma A&M, 31; 18—Mississippi State, 27; 19—Duke, 19; 20—Southern California, 18.

Honorable mention—Virginia, 7; Georgia Tech, 2; Washington, 2; Illinois, 2; Missouri, 1; Oregon, 1.

CAMPUS CENTRIFUGE

(Continued from Page 2)

elsewhere their work leads them to destruction of public property.

Holidays

Objections to coming back to college so soon after Christmas are becoming more and more numerous. Even members of the faculty and administration seem to prefer setting the registration date back a few days. If the date were changed, the extra days would probably be taken from the Spring holidays. Most boys think anything would be better than coming back so soon after Christmas, especially those living far away. Transportation facilities would certainly be overburdened the day after Christmas. Including the weekend of the 29th in the holidays would be a very convenient arrangement—possibly making Tuesday, New Year's Day, registration day. Most sentiment seems to favor a petition to the faculty council.

Monogram Sweaters

When restrictions made it evident that athletic sweaters were not available, the practice of measuring the players for sweaters when they had earned them was discontinued. Now that sweaters and monograms can be purchased, every effort should be made to catch up on these commitments. In many sports, a sweater and monogram (Continued on Page 4)

VARSITY

Friday

"DRAGON SEED" with Katherine Hepburn - Turhan Bey

Saturday

"THE BULL FIGHTERS" with Laurel and Hardy

Sunday

"TODAY AND EVERY NIGHT" with Rita Hayworth and Lee Bowman

Tuesday

"MY GAL LIVES MUSIC" with Bob Crosby - Grace McDonald

Wednesday

"PEARL OF THE SOUTH" with Basil Rathbone - Nigel Bruce

Thursday and Friday

"MRS. PARKER'S RECEPTION" with Greer Garson - Walter Pidgeon

(Continued on Page 4)

What's Ailing Your

Watch?

WEATHERMAN

JEWELERS

1904 Hillsboro Street

First-downs	14	141
Number of rushes	38	32
Yards gained rushing	149	155
Yards lost rushing	12	17
Net yards rushing	137	138
Passes attempted	12	22
Passes completed	8	12
Yards gained passes	167	181
Passes int. by opp.	1	1
Number of punts	4	4
*Average yardage punts	35½	37
Yards punts returned	23	0
Opp. fumbles covered	1	1
Yards lost on penalties	40	40

\*Punts figured from line of scrimmage.

†One on penalty.

‡One blocked kick not figured in average.

In one of the most exciting games of this, or any other season, the State College Wolfpack was defeated by the Demon Deacons of Wake Forest. The Deacs, who were supposed to beat the Pack by at least 18 points, were hard-pressed to beat the fighting State even by even a one-point margin. The game was closer than the score indicated because the Wolfpack just about equalled the Deacons in every department and in more than one division they excelled the charges of Coach Bonner. Early in the game the Wolfpack demonstrated to the Deacs that they were not going to be any easy victims as they scored after a drive that started on their own 40-yard line. As the game developed it proved to be a battle between Nick Sacrinty of Wake Forest and Howard Turner of State.

Early in the first quarter, after State's center, Bonner, recovered a Deacon fumble, the Wolfpack began to move deep into enemy territory and climaxed their 60-yard drive as Turner kicked over the State's 40-yard line for the first score of the game. The only other threat, by either team during that quarter, was a drive made by State which carried to the Deacons' 13 yard stripe where a fumble occurred which was recovered by an opposing player. The period finished quietly as far as excitement was concerned.

Action began thick and fast in the second quarter as Nick Sacrinty started passing and running to lead the Wake Forest team to its first touchdown. He climbed the drive by going over from the 4-yard stripe. Nick Sacrinty then dropped the ball from center and the extra point was no good. The score then stood at 6 for Wake Forest and 0 for the home team. After the kick-off, which was returned to the State 47, Turner started showing the Wake Forest lads that he was going to be hard to stop and as a sample of his running ability he soon clipped off 18, 17, and 14 yard runs which placed the ball on the Wake Forest 27 yard marker where State had it a first down. Another first down soon followed which placed the ball on the Wake Forest 10. Turner made six, Worst made two and then Turner was stopped for no gain. A substitution caused the ball to be moved back five yards to the Deacons' 7. Turner then faked back and tossed to Courts who made a beautiful catch on the three and stepped over for the score. The placement was blocked. Naugher then kicked-off to Nick Sacrinty on his own 11-yard line, who, with beautiful blocking from his team mates, ran through the entire State team without having a hand laid on him. The conversion was good and the score stood, at half-time, 13-12, in favor of the visitors.

During the third period the score remained the same and it looked as if the score would end that way until fireworks started popping in the final quarter. Sacrinty again lead the drive that netted the touchdown as he passed and ran the ball from the Deacons' 26 to paydirt. From this point the Wolfpack, led by Howard Turner, started another sustained drive that ended in a State touchdown. The ones that were featured mainly in the drive were Charlie Richkus and Lum Edwards as they were the targets that Turner was throwing to during the push. Finally Naugher plunged through from the one-yard line to complete the drive. The placement was again blocked and the score showed that Wake Forest was still ahead, 19-18.

State kicked to the Deacons as time started to run out. Three tries at running could only net the winners seven yards and they were forced to go into punt territory but the kick was blocked by Courts and Gibson and it fell on the Wake Forest 39 yard marker. A long pass to Courts was short and a fumble was recovered by State. Soon after a holding penalty was called against the Deacs which gave the Wolfpack a first down. Turner then passed to Richkus for nine yards but three long passes failed, and the game ended with the ball in Wake Forest's possession and the score favoring the Deacons, 19-18. The whole team played fine ball without exception and the switch in the line-up certainly improved the Fighting Red and White.



## AFL Warns Against Giving Up Control Over Our Air Space

Warning that hasty action by our State Department in giving up this country's control over its own air space would let the bars down to any foreign airline that sought entrance into the United States, the American Federation of Labor this week called upon the Government to take immediate constructive steps for maintaining the air leadership of America in the postwar world.

In a statement of policy adopted unanimously by the Executive Council, the American Federation of Labor pointed out that agreements promoted by the then Assistant Secretary of State Adolph A. Berle, Jr., at the recent Chicago International Aviation Conference would change established American law and "operate to the detriment of all American transportation, both surface and air, both foreign and domestic." A policy which offers to all nations competitive to America in world trade and industry the right to operate airlines to this country and through the United States to trade ports around the globe, would "remove the tariff wall" from this great industry upon which the future security of this country depends, it is pointed out.

In pointing out these "air freedoms" would harm American wage-earners and labor standards, George Meany, secretary-treasurer of the Federation, in a recent article in the *Farrington*, said: "These foreign flag airlines, in addition to the advantages of basic wage cost differentials, will have the decisive advantage of operating as worldwide monopolies subsidized and owned or controlled by their governments."

Furthermore, he declared that "in effect the foreign flag international airlines will be instruments of foreign policy for their respective governments even more than were the subsidized shipping lines in the past." By similar combination of competitive advantages, Mr. Meany showed, these steamship lines drove American ships from the high seas to the refuge of our coastal waters where "freedom of the seas" did not prevail.

In carrying the case to the Government the American Federation of Labor points out that American industry, including aviation, has flourished by the safeguards this Government has maintained against low wage level competition. Our aviation industry like-



wise attained world leadership under our present law which permits foreign airlines to compete in American trade only when they can show such competition is in the public interest and their franchise is approved by the President of the United States.

The American Federation of Labor in summing up the case points out that the "Freedom of the Air" would:

1. Take away U.S. control of its own air space.
2. Invite international subsidy wars and create international ill will.
3. Endanger U.S. safety standards by uncontrolled and unregulated competition with foreign airlines.
4. Offer U.S. international air traffic—80% of the world's total—to low-wage-level foreign airlines.
5. Force the U.S. to accept any Axis airlines which are under the dummy registry of friendly nations.
6. Nullify our Civil Aeronautics Act.
7. Authorize foreign airlines of 34 countries to come into the United States and carry our own traffic to any port on the globe.
8. Enable foreign airlines to take away business from our own railroads, bus lines and air companies even between airports of entry within the United States.
9. Destroy all control of rates and frequencies of landings.
10. Take away any control by the U.S. of air bases vital to our own future defense.

### CAMPUS CENTRIFUGE

(Continued from Page 2)

gram is the only recognition that athletes receive for their hard work. A high morale among this group means much to the whole college. It is time definite plans were made to distribute this expensive remuneration. Lack of the colorful garments detracts from campus glamour.

When rough-handling students gradually tore up the telephones that were once in every dormitory and most every floor, no provision was made for re-installing them. Any mechanical instrument has a limited life, and when a large group of students give it constant use, the life is short. Even so, that is poor grounds for refusing to get another one. Telephones are one of the most useful instruments of modern science; the expense of financing their cost and depreciation would be welcomed by a great majority of the students. With the present system, the YMCA is forced to send runners all over the campus when important messages are received. Every dormitory, and floor, if the building is large enough, should have a telephone. If possible, the college exchange with free telephones should be re-established.

### POST-WAR STUDENTS

"It is probable that the state universities will be called upon to care for a disproportionate share of the postwar college students. The private colleges in many cases will refuse to take additional students when they have enrolled all they can adequately accommodate. The municipal universities may limit enrollment to residents of the cities they serve. The state universities are required by statute to accept all high school graduates within the state who apply. This may mean that the state universities will be called upon to accept more students than they adequately can care for even if all new buildings now requested are provided."

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## Shooting Star Is Super Jet Airplane

The Lockheed P-80 Shooting Star, which is driven faster than any other plane will fly by General Electric super-jet propulsion turbine, most powerful aircraft engine in the world, was unveiled to the public nationally for the first time at exhibits and in pictures as a mark of Air Force Day recently.

Additional details about this supreme fighter of the war also now can be told for the first time with permission of the War Department as another recognition of an anniversary of the Army Air Forces which began exactly 38 years ago with a manpower component of three and now functions as a global striking force of more than 2,300,000 officers and men.

The first exhibitions of the Shooting Star for the public were made at National Airport in Washington, D. C., Wright Field, headquarters of the Air Technical Service Command, Dayton, Ohio, where some of the P-80 advances were developed, and Lockheed Air Terminal, Burbank, Calif.

Army Air Forces officers gave accounts on the Shooting Star training operations; told-dramatically how the trim fighter knives through the air at supreme speeds with virtually no vibration being generated by the light jet engine; how both the plane and engine were developed under tremendous wartime pressure at great speed by teamwork of the Air Technical Service Command and engineers of Lockheed Aircraft Corporation and General Electric Co.

Clarence L. Johnson, chief research engineer for Lockheed, under whose direction the first Shooting Star was designed and built in the record time of only 143 days, pointed out design achievements and characteristics of the propellerless plane that are factors in its going nearer the speed of sound than any other man-made vehicle ever has been able to achieve.

Qualities of the super jet engine were discussed by Reginald G. Standewick, General Electric engineer who had charge of the design and development of this most powerful engine for the Army Air Forces. Mr. Standewick emphasized the simplicity of the G-E Jet, pointing out that it actually has but one moving part while in flight. He also said that the jet engine could be removed from a Shooting Star and replaced with another engine in twenty minutes.

Basic information about the Shooting Star and the super jet engine given by the authoritative speakers at the preview luncheon included:

1. Speed, Maneuverability, Climb: The Shooting Star will go faster than any other plane can fly. It is highly maneuverable and superlative in rate and angle of climb at high speeds.
2. Greatest Power: The General Electric turbo jet engine gives the Shooting Star more power than there is in any other fighting airplane. The engine is far more powerful than any existing reciprocating conventional gasoline engine.
3. Easy to Control: No new flight problems are created by the harnessing of the tremendous power of the jet engine in the Shooting Star. Any competent pilot can fly a jet propelled plane, reducing training problems to a minimum. Such commanding AAF officers as Colonel Bruce K. Holloway have emphasized that "It is easy to fly" and that when the jet engine is "wide open" there's absolute "no sensation of tension or vibration."
4. Higher Altitudes: The Shooting Star can function smoothly at greater altitudes than other airplanes. The super G-E Jet actually operates more economically at extreme altitudes.
5. Equipment Eliminated: The Lockheed Jet Fighter achieves its peak performance without propeller, radiator and many complex controls and instruments. The jet engine has no carburetor, oil cooling system, complex ignition system, generators and the like. Both the

## Engineering Student Leaders At N. C. State



JAMES S. HEPLER



JOSEPH M. MONROE



FRED C. SNYDER



CHARLES L. (BILL) MATTHEWS

Leaders of the Engineers Council, principal organization of students in the School of Engineering at N. C. State College, are pictured above. The fall term officers of the Council are: James S. Hepler of Greensboro, president; Fred C. Snyder of Winston-Salem, vice president; Joseph M. Monroe of Hamlet, secretary; and Charles L. (Bill) Matthews of East Bend, treasurer.

plane and engine are simple to service, and repair.

6. Vibration Zero: The super jet engine generates virtually no vibration. That eliminates a factor which causes much pilot fatigue. Comfort for passengers in transport planes also will be increased by this when jet engines and gas turbines are harnessed to propel the larger aircraft.

7. Range Problem Solved: Fuel sufficient for long range fighter operations is carried in the Lockheed Jet Fighters due to its advanced aerodynamic design. An ingenious arrangement of wing and fuselage tanks, coupled with the fact that the jet engine is both powerful and light, make this load possible.

8. Simplicity: The super jet actually has but one moving part. That consists of an impeller and turbine connected by shaft. The turbine and impeller spin more than ten thousand times a minute. Frequently the air condensed by the impeller is 50 degrees or more below zero while that pouring from the combustion chambers through the turbine buckets only a few inches distant is blazing hot, 1,500 degrees Fahrenheit or more.

9. Fuel: Kerosene now is being burned in the jets to give power for the Shooting Stars. High octane gasoline is not necessary to produce maximum power in these engines. As a matter of fact, any fuel that will burn will produce power in the jet engine. The more heat produced, the greater the power.

10. Pressurized Cabin: Shooting Star pilots function in a cabin kept at virtually normal temperature and air density regardless of altitude. Eight miles above the earth, going more than 550 miles an hour,

the Shooting Star pilot doesn't have to wear an oxygen mask or heavy clothing. Air flows from the jet to the cabin.

11. Fireproof: Armament of the Shooting Star is located in the nose for most effective concentration of firepower. Guns that shoot parallel streams of bullets are equally effective throughout their entire range.

12. No Warm-Up Necessary: The almost instantaneous generation of great power by the jet engine insures record breaking quick take-offs for the Shooting Star. These engines actually produce great power within 30 seconds after the starter motor is turned-on.

Electronics has taken on still another job. It controls the water-level of boilers, automatically shutting off the fuel supply if the water drops below the safety level.

### CAPITOL

Friday and Saturday  
Gene Aubrey in  
"OH! SUZANNA"  
Chap. 6 of "Master Key"  
Sunday  
"UTAH TRAIL"  
with Tex Ritter  
Monday and Tuesday  
"WATERLOO BRIDGE"  
with Robert Taylor and Vivian Lee  
Wednesday  
"MID-NIGHT MAN HUNT"  
with Ann Savage  
Thursday—ON STAGE  
Carl Strong's "RYAN RANGERS"  
On The Screen  
"RIDE 'EM COWBOYS"  
with Dorothy Ferebee

## Enrollment Summary Fall Term 1945-46

The total enrollment of regular students for this year is 1,243. This is an increase of approximately 50 per cent over last year's enrollment figures. Engineering led with 764 students, agriculture was next with 237 students, textiles next with 162 students, and teacher education last with 80 students.

BASIC DIVISION			Curriculum			TECHNICAL SCHOOLS			Grand Total
Fr.	Sr.	Total				Jr.	Gr.	Prof.	Total
<b>Agriculture</b>									
110	18	128	General Agriculture	0	0	0	0	0	128
0	0	0	Agri. Economics	0	0	1	0	1	1
0	0	0	Agroonomy (Field Crops)	4	1	4	0	9	9
0	0	0	Agroonomy (Soils)	1	0	1	0	2	2
0	0	0	Animal Production	2	3	1	0	6	6
0	0	0	Dairy Manufacturing	1	0	0	0	1	1
0	0	0	Entomology	0	0	2	0	2	2
0	0	0	Exper. Statistics	0	0	4	0	4	4
0	0	0	Floriculture	1	0	0	1	1	1
0	0	0	Plant Pathology	0	0	2	0	2	2
0	0	0	Rural Sociology	0	0	3	0	3	3
7	2	9	Agri. Chemistry	0	0	9	0	9	18
13	3	16	Agri. Engineering	2	1	0	0	3	20
24	5	29	Forestry	5	2	3	0	10	39
0	1	1	Wild. Cons. and Mgt.	1	0	0	0	1	2
154	29	183	<b>Total</b>	16	8	30	0	54	237

94	14	108	<b>Engineering</b>	6	6	0	0	12	120
28	14	42	Aeronautical	5	1	0	0	6	48
16	1	17	Architectural	0	1	0	0	1	18
8	5	13	Ceramic	1	0	0	0	1	14
42	23	65	Chemical	12	14	1	0	27	92
71	23	94	Civil	5	6	0	0	11	105
132	25	157	Electrical	9	1	0	0	10	167
15	4	19	General	0	1	0	0	1	20
2	0	2	Geological	0	0	1	0	1	3
7	6	13	Industrial	0	2	0	0	2	15
109	30	139	Mechanical	8	14	1	0	23	162
524	145	669	<b>Total</b>	46	46	3	0	95	764

32	8	40	<b>Teacher Education</b>	7	1	1	0	9	49
4	0	4	Agri. Education	1	0	0	0	1	5
18	6	24	Indus. Arts Educ.	1	0	1	0	2	26
54	14	68	<b>Total</b>	9	1	2	0	12	80

89	42	131	<b>Textiles</b>	0	0	0	0	0	131
0	0	0	Textiles	3	1	2	0	6	6
0	0	0	Tex. Chem. and Dyeing	2	4	0	0	6	6
0	0	0	Tex. Management	7	3	0	17	17	17
0	0	0	Tex. Manufacturing	2	0	0	0	2	2
0	0	0	Weaving and Designing	14	12	5	0	31	162
89	42	131	<b>Total</b>	85	67	40	0	192	1243

821	230	1051	<b>Totals by Classes</b>	85	67	40	0	192	1243
<b>Pratt &amp; Whitney Fellows (not classified)</b>									
									13
<b>Special—No College Credit (not classified)</b>									10
									1266

GRAND TOTAL					
New Freshmen . 618	Former B. D. Students . 352				
New Transfers . 131	Former Upperclassmen . 165	Men . . . . .	1198		
		Women . . . . .	68		
New Students . 749	Total Former Students . 517				



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