

Engr. Faculty Meeting  
Thurs. Nov. 20, 4:15  
Room 242 Riddick

ASHVE, ASME, JAS and  
Pi Tau Sigma  
111 Broughton  
Tues. Nov. 18, Dr. Anderson

# the Technician

Vol. XXXIII, No. 7 State College Station, Raleigh, N. C., Nov. 14, 1952 Offices 137-139 1911 Bldg.

## Dean Hilton Resigns

AG HEAD TO BE PRESIDENT OF IOWA STATE

Dr. James H. Hilton, dean of the School of Agriculture at North Carolina State College, has accepted the position as Iowa State College, one of America's top-level institutions of higher learning.

Dean Hilton will assume his duties in June or July as chief administrative officer of the Iowa institution, which has an approximate student enrollment of 8,000 and five major divisions.



DR. J. H. HILTON

Announcement of Dean Hilton's decision to accept the Iowa State post was made by Chancellor J. W. Harrelson of N. C. State College, who said the college regrets to lose the services of Dean Hilton but wishes him well in his new position.

Dean Hilton was the unanimous choice of Iowa State College's faculty and alumni and of the State Board of Education as the successor of Dr. Charles E. Friley, retiring president of the college.

As president of the college, Dean Hilton will supervise the operations of the entire institution, including its famous schools of agriculture, veterinary science, home economics, industrial science, and engineering. The Iowa Agricultural Experiment Station and Extension Service are also divisions of the college.

A popular educational administrator, Dr. Hilton has been in wide demand for top-ranking assignments in various sections of the United States. In 1949, he declined an offer to become dean of agriculture at Iowa State College, and this year he turned down the job as dean of agriculture at the University of Illinois.

Located at Ames, Iowa State College is situated in the heart of the nation's corn belt. A pioneer in many fields, Iowa State operates the only television station in the State of Iowa, WOI-TV, which serves Iowa's Capital City, Des Moines, and other cities in that part of the country.

The college is internationally known for its scientific investigation and original research.

In addition to his professional interest in Iowa State, Dean Hilton also has a personal loyalty to the

Ames school. It is the alma mater of both he and Mrs. Hilton. Commenting on Dr. Hilton's elevation to the Iowa post, President Gordon Gray of the Consolidated University of North Carolina declared:

"Dean Hilton's decision to go to Iowa State is a source of great disappointment. He has meant a great deal to North Carolina Agriculture and to North Carolina State College and the Consolidated University.

"He has performed his complex duties cheerfully and competently. During the years of his important association with agriculture in North Carolina, we have seen its most spectacular, and at the same time, solid progress.

"We, of course, will wish him happiness in the challenge he has accepted in Iowa. We recognize that he returns to his alma mater with a vision of great service there.

"As evidence of the opportunity which he is facing, it must be recognized that he has chosen to accept the presidency of Iowa State with full realization that he was very high on the list of those who (Continued on Page 16)

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If you will accept the Florida State Drum majorette who appeared on the Oct. 31 issue as reason No. 1 in favor of more coeds, here are reasons No. 2 and 3, leading the band at halftime during the State-Wake Forest game.

## Technician Staff Meet

There will be a general staff meeting of ALL TECHNICIAN staff members at 8 p.m. on Tuesday, November 18 in Room 138, 1911 Bldg. Everyone is urged to attend—even those who are not regular staff members but who may desire to become associated with this publication.

On the agenda are discussions of editorial policy, the proposed re-establishment of the North Carolina Collegiate Press Convention, and the role of the newspaper on this campus.

DON'T MISS IT! The meeting will also afford new staff members an opportunity to get acquainted with the rest of the gang.

## IFC In Coliseum

Tommy Tucker and his well-known dance band will play for the seventeen local social fraternities when they honor their two hundred new pledges at their annual Pledge Dance, Saturday, November 15.

The big weekend will start Friday night with individual fraternity capers such as costume parties, barn dances, and the traditional apache parties. Saturday afternoon the Greeks and their dates will convene in the Textile Auditorium for a concert by Tommy Tucker, his band and vocalists.

### Coliseum Scene of Dance

Saturday night at 8:00 the fraternities will take over the Coliseum for four hours of soft music and good dancing. As is customary, the dance is formal. Guest bids for the dance may be secured from any of the fraternity men.

Plans for the gala weekend were started last spring with Sigma Nu, Sigma Chi, Sigma Phi Epsilon, Sigma Pi, Tau Kappa Epsilon, and Theta Chi serving on the dance committee. Sigma Nu headed the committee.

Needless to say, the fraternities are awaiting anxiously the weekend of November 14-15-16 for it will be their biggest Fall Quarter Social.

## Chess Tourney

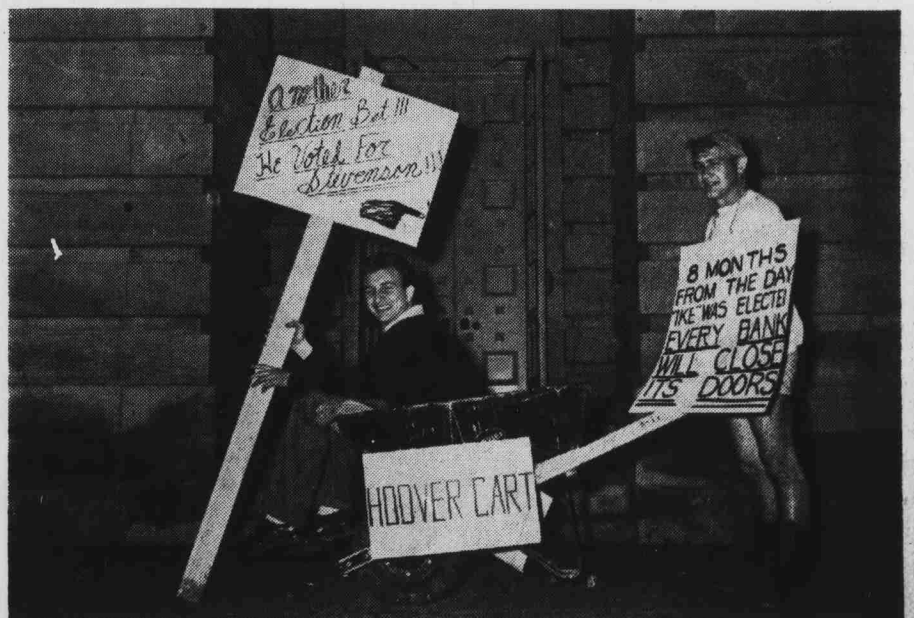
The College Union Games Committee will sponsor a Chess Tournament in the Y.M.C.A., Wednesday, November 19, 7:30 p.m.

Trophies will be given to the winners. All chess players will be welcome.



Hillsboro Street motorists blinked as this unregistered vehicle became the center of attention shortly after the Nov. 4 election. Bill Griffin, pushing, looked none the worse for his ordeal upon arriving at the Capitol. (Photo by Rolf Albert.)

## For Better or for Worse—IS THIS A WHEELBARROW THAT I SEE BEFORE ME?



Bill Griffin, TECHNICIAN Circulation Staff member, and a senior in Mechanical Engineering poses with his fare, Bob Laurence, TECHNICIAN Advertising Manager, on the steps of the Capitol after Bill had trundled Bob the length of Hillsboro Street, starting at the State College Tower. (Photo by Rolf Albert.)

### Hitch-Hikers Beware

The gesturing, upturned thumb, universally recognized highball among wanderers of the highway is strictly frowned upon in North Carolina. Fact is, it's against the law.

However, like many statutes, the ban against soliciting rides from motorists on public roadways has fallen by the wayside. For one thing, the transportation free loaders have decreased in number, thus drawing enforcement eyes to more pressing problems. And too, nearly everybody drives nowadays since the Department of Motor Vehicles knows officially of 1,226,339 vehicles. Among non-drivers, the old time shank's mare traveler is virtually unknown. Transients feel, if they don't own cars, there are plenty of others who do. Thus the declining, but aggressive corps of hitch hikers who unknowingly flout the law regularly.

College students are perhaps the worst offenders according to the State Highway Patrol. At football games they all but commandeer slow moving cars, creating additional hazards for hard pressed officers directing traffic. Fortunately a stern warning, with a hint of indictment, breaks up this gay game—sometimes. And it would indeed be an unobservant driver who failed to notice the platoon of Wake Forest student-thumbers who line upper Person Street in Raleigh every afternoon. The young Deacon law students may not know it yet, but they are breaking a duly enacted state law.

The same situation prevails in West Raleigh where dozens of State College students bend their thumbs and break the law. In education centers throughout the state, weekend thumbers create minor traffic problems.

If there is a regular semi-organized corps of hitch hikers, it would be students say extensive travelers.

And while most safety officials condemn the practice, it's often overlooked in blanket preparations for highway safety promotion. The Department of Motor Vehicles produces no statistics on fatalities and injuries among hitch hikers. That some few are injured, and perhaps killed, every year goes without saying. Thus an appeal to those who thumb rides regularly to "cease and desist" is probably the best answer.

For the academic minded the manual of motor vehicle laws, in one short paragraph, presents the state's point of view on hitch hiking. In section 20-175 it reads: "No person shall stand in the travel portion of the highway for the purpose of soliciting a ride from the driver of any private vehicle."

And for the hair-splitters, the "travel portion" of the highway means right up to where the pavement ends at the shoulder.

Ad in Daily Texan: "Lost Saturday night—Pair of light weight trousers, lettered Le-Bak."

### Spelling

Here is the last set of misspelled words in the first series which were prepared for The Technician by Professor Clark of the English Department. Let's see how you can do with this batch. The answers are on page 6.

- schedule
- seperate
- sergeant
- similar
- seige
- sophomore
- superintendent
- supercede
- surprise
- syllable
- tragedy
- until
- villain
- weird
- writing

(Continued on Page 6)

### No Flunk Outs

A program of scholastic assistance for students experiencing difficulty in meeting established standards of achievement in their courses has been inaugurated at Manhattan College by the Dean of Student Personnel.

The plan affords students in need of tutorial help an opportunity for supervised study under the direction of upperclassmen who have achieved distinctive standing in the courses concerned. This help is given on the average of two hours a week from 8 to 8:50 a.m. before the start of the regular class schedule at 9 a.m. Student tutors work under the general supervision of the Heads of the Departments. No fees are charged for this service.

In commenting on the program, Dean John A. Cossa said: "The inauguration of the cooperative supervised study program stems from the recognition that there exists in the collegiate student body a tremendous potential for mutual assistance of great value in increasing the effectiveness of the instructional activities of the faculty."

"The students in need of assistance to prevent or overcome scholastic difficulties receive it in a set-

### Frosh Enrollment Forecast

Results of a long-range study forecasting future enrollment in the 13 colleges and universities in northeastern Ohio have been announced at Western Reserve University, where the survey has been under way since 1949.

College registrations, the study reveals, beginning with the 1952-53 academic year will rise gradually until, climaxing increased acceleration in the early 1960's, a record-breaking peak is reached in 1967.

This encouraging look into the future is the basic conclusion of the comprehensive study which is titled formally "Study of Future Demand for College Admission." The project has been under the supervision of Dr. R. Clyde White, director of institutional research on this campus.

In calculating the probable number of college freshmen in future years, Dr. White and his staff studied countless factors, including birthrate trends, life expectancy tables, pressure of employers for college-trained personnel, flexibility of the social group structure, economic conditions, and motivation toward college attendance.

Special monographs have been issued on two phases of the study, "Jobs and Higher Education—What Industry Wants from Colleges" and "High Level Leadership and Higher Education."

Dr. White's estimates of college freshman registrations in the area through 1968 show a steady rise, from 4,900 anticipated in the fall of 1952 to the peak over the 13,000 mark in 15 years. In table form, estimated freshman enrollments will be:

1952	4,900	1961	9,110
1953	5,010	1962	8,320
1954	5,130	1963	8,790
1955	5,430	1964	11,490
1956	5,850	1965	13,690
1957	5,940	1966	12,890
1958	6,280	1967	13,110
1959	7,200	1968	12,460
1960	8,940		

Data was collected from 60 public, private and parochial high schools in the Cleveland, Akron,

Lorain area. The city and rural secondary schools in the sampling represent one-third of those in the seven-county area.

### FEMININE LOGIC

Asked by a student pollster whether she preferred male students in ROTC uniforms or in civilian dress, an Akron university coed replied, "If they wear uniforms then they don't have to buy so many clothes. That leaves them with more money to spend on me."

Another girl told the pollster, "I like civilian clothes better because the only way you can tell the Air Force men from the bus drivers is the way they tilt their hats."

**42nd Street**

**OYSTER BAR**

Under New Management  
**O. J. Rogers - Jake Tola**

Steaks, Chicken, Oysters  
Any Style Shrimp & Sandwiches

Open 7 Days Weekly

The big bad wolf he huffed and puffed  
To blow the pigs' house down.  
'Twas not a Lucky Strike he puffed,  
Or he'd have lost that frown.

Charles LaDus  
University of Michigan



## LUCKIES TASTE BETTER!

They're made better to taste cleaner, fresher, smoother!

Take a Lucky from a newly opened pack and carefully remove the paper by tearing down the seam from end to end. Be sure to start on the seam. In tearing don't crush or dig into the tobacco. Then, gently lift out the cylinder. See how free Luckies are from air spaces—"hot spots" that smoke hot, harsh and dry—from loose ends that spoil the taste. Note that Luckies' long strands of fine, mild tobacco are packed firmly to draw smoothly and evenly—to give you a cleaner, fresher, smoother smoke. Yes, Luckies are made better—to taste better! So, Be Happy—Go Lucky! Get a carton today.

When rushing season comes around  
For our sorority,  
The girl who always gets our bid  
Knows L.S./M.F.T.

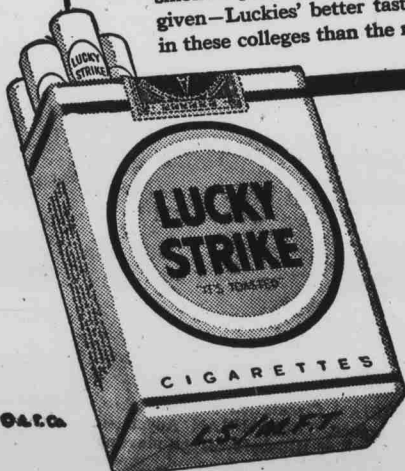
Leah Belle Korn  
Pembroke College



## SPECIAL NOTE!

**College students prefer Luckies in nation-wide survey!**

Nation-wide survey based on actual student interviews in 80 leading colleges reveals more smokers prefer Luckies than any other cigarette—and by a wide margin. No. 1 reason given—Luckies' better taste. Survey also shows Lucky Strike gained far more smokers in these colleges than the nation's two other principal brands combined.



FOR A  
CLEANER, FRESHER,  
SMOOTHER SMOKE

Be Happy—  
**GO LUCKY!**

STUDENTS!  
Make \$25!  
Send in your  
Lucky Strike  
jingles now!

PRODUCT OF  
The American Tobacco Company  
AMERICA'S LEADING MANUFACTURER OF CIGARETTES

# WANTED: One Chancellor

On one previous occasion this newspaper published all available information concerning the methods by which a new Chancellor for State College will be selected. On the well-founded assumption that everyone enrolled at or affiliated with the college is still not aware of the involved processes, the information will again be spread across these pages.

During the month of July, Rudolph I. Mintz of Wilmington, president of the NCS Alumni Association, announced the appointment of a five-man alumni committee to assist in the selection of a new chancellor.

The committee will work as an advisory body to President Gordon Gray of the Consolidated University. President Gray requested the help of three committees in making his recommendation of a new chancellor to the Board of Trustees.

Alumni President Mintz designated H. B. Robinson of Raleigh, vice president of the Carolina Power and Light Company, as chairman of the alumni committee. Robinson is a member of the State College Class of 1922, graduating with a degree in electrical engineering.

Other members of the alumni group are Guy F. Lane of Ramseur, T. B. Elliott of Woodland, Carl R. Harris of Durham, and G. Frank Seymour of Goldsboro.

Appointment of the alumni committee completes the selection of the three advisory committees who will assist President Gray in his search for a new chancellor. On Friday, June 20, Governor Scott named a five-member committee from the Board of Trustees, and on Monday, June 23, President Gray announced the appointment of a seven-man State College faculty committee after consulting Chancellor Harrelson.

At the State College commencement service on Sunday, June 8, President Gray announced the procedures to be followed in naming a successor to Chancellor Harrelson. He explained these steps as follows:

"Under the code of the Consolidated University and in keeping with customary procedures, to assist me in locating and in enlisting the person whom I will recommend to the Board of Trustees as a worthy successor to Chancellor Harrelson, I should like to work with three small advisory committees. First, I will ask the counsel of a committee of the faculty of State College. Second, I will ask for a committee of trustees selected by the chairman of the Board of Trustees, Governor W. Kerr Scott. Third, of alumni selected by the president of the Alumni Association, Rudolph I. Mintz.

The trustees committee named by Governor Scott is composed of L. P. McLendon of Greensboro, chairman; Edwin Pate of Laurinburg, George Coble of Lexington, Lt.-Gov. H. P. Taylor of Wadesboro, and Reid Maynard of Greensboro.

Dr. Lodwick Hartley heads the faculty committee appointed by President Gray. Other members of this committee are Prof. Clarence M. Ashill, Dr. Clifford K. Beck, Dr. D. W. Colvard, Dr. D. J. Moffie, Prof. G. K. Slocum, and Prof. E. G. Thurlow.

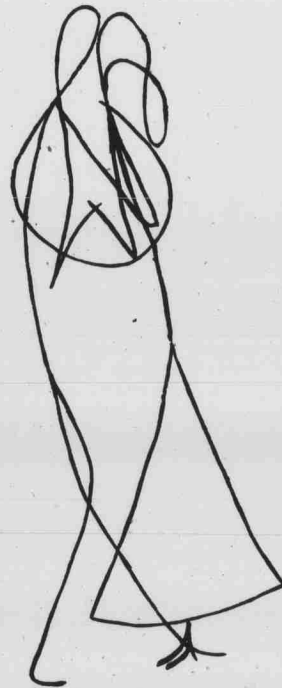
Early in September, Dr. Hartley prepared a form which would enable a selected group of student leaders to list the criterion by which they thought the new chancellor should be selected. The forms were duly mailed and the initial response was heartening; however, the interest which was demonstrated in the early returns soon waned. The end result was that Dr. Hartley received back slightly less than half of the questionnaires which had been distributed.

This lack of enthusiasm on the student's part is not to be lightly passed over and forgotten. For one thing it discourages Dr. Hartley and his committee from seeking any further expression of sentiments from the students when an all-important matter such as this arises. But, the Hartley team is undaunted. They remain receptive to the student's preferences as to who the next chancellor should be—any student is welcome to submit his personal or group preference for a new chancellor.

Perhaps something should be said concerning the resignation of Dean Hilton and his acceptance of the Presidency of Iowa State College as it is closely related to the choice of a new chancellor. Even the most skeptical observers should be reassured by the announcement which came from Gordon Gray's office stating that Dean Hilton was very high on the list of those individuals being considered to replace Colonel Harrelson. Everyone at State College can well point with pride to Dean Hilton, for the fact that he proved worthy presidential timber at Iowa State coupled with the fact that he was a strong contender for the chancellorship clearly shows that men of the highest calibre are being considered for the dominant position at State College.

The Technician congratulates Dean Hilton on his recent appointment to the presidency at Iowa State and hopes he will even surpass at that institution the excellent record which he has established here.

## The Dancers



We would like to advance the idea that the two figures above are not just any two people in close physical proximity, but are, rather, a symbol of the unity which was achieved between State College students and those of the Women's College at the College Union Quarterly Dance held last Saturday night in Frank Thompson Gymnasium. (Drawing by Gary King.)

## Quarterly Crowded

If ever there was the slightest doubt that the College Union Social Program would succeed, that doubt was erased with the presentation of the Union Quarterly Dance in Frank Thompson Gym on Saturday night. The dance committee deserves a special commendation for a job well done.

There is only one minor improvement which would make future dances of a similar nature even more enjoyable, and that improvement must be forthcoming on the students part. There is entirely too much roaming around by the stags while the dance is in progress. There were almost as many stags on the actual dance floor as there were on the sidelines. And too, intimate conversational groups would develop in the most unlikely places, particularly those which obscured the front of the bandstand during the better part of the evening.

This objectionable aspect of the dance could be abolished if the stags would but remain on the sidelines until they spot the couple on whom they wish to cut. By so doing, the thundering herd of stags could be restrained from stampeding the couples already performing their two-step on the floor.

That doesn't seem like too much to ask, does it?

## AFFAIRS OF STATE

By BOB HORN

Well, with Truman out and Ike in, Uncle Joe may have to scuttle the plans which would have allowed him and the boys of the Politburo to achieve victory through scare power. Which leads to the next thought. Wonder if the "It's time for a change" slogan has affected Mamie in any way. It will be interesting to see if the new first lady steals the show with a bang-up inaugural celebration.

The fellow across the hall in our dorm went home for the election

to hear his ten-year-old sister chanting:

Eisenhower's in the White House  
Waiting to be elected.  
Stevenson's in the garbage can  
Waiting to be collected.  
Big brother, a Democrat, was unappreciative of such blankety-blank verse. Can't say as I blame him.

From the collection of prize anecdotes in the *Reader's Digest Treasury of Wit and Humor*, came the following account.

"State College alumni attending a dinner in Raleigh, were asked to name their professions. One shy young undertaker, fearing the derision of the crowd when told his calling answered smoothly, 'I'm a Southern Planter.'"

From a sermon which was delivered into my hands by "Pop" Taylor, I have selected a paragraph which originally appeared in the *Memphis Commercial Appeal*. The sermon was delivered by Dr. Walter R. Courtenay, pastor of the First Presbyterian Church in Nashville, Tenn. on February 12, 1950. It goes like this:

"The State is my shepherd, I shall not work; it maketh me to die down on good jobs; it leadeth me by the still factories. It deadens my soul; it leadeth me in the paths of idleness for politics' sake. Yea, though I walk through the valley of slothfulness and economic disaster, I will fear no evil, for it will be with me; its dole and paternalism, they comfort me. It prepareth a Utopia for me by appropriating the earnings of the frugal; it filleth my head with fool expectations; my mounting inefficiency runneth over. Surely goodness and mercy shall follow me all the days of my life; I shall live on the bounty of the State forever."

## STICK TO YOUR KNITTING

To prove that girls know their football, a guest girl reporter wrote up the account of the Michigan State Normal-Hope College football game as follows:

"During the first quarter neither side scored, and there were some spectacular plays by M.S.N.C. grid-ders (I heard a fellow behind me say so).

"Second quarter, Masy came into our section in her new cashmere coat, and it was noticeably colder. Also the team earned a penalty. That means they had to go backwards after they'd already gone forward. We girls didn't understand why, but that's okay, (cold enough to have worn boots!).

"Two wonderful touchdowns were scored in the second half; (No. 64 from Hope was cute, and No. 32 was hurt)."

"Simpson never did finish his education, did he?"

"Nope, he died a bachelor."

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## SHARPS ..... and FLATS

By JIM CRAWFORD

Trying to please all of the student readers all of the time is quite a task. In this column there will be an attempt to collect items and bring about an interesting balance in the coverage of the world of musical entertainment as far as North Carolina State College is concerned. If you, the reader, like our little story each week, let us know; if you don't, let us know that also. Drop a postcard either to the Technician Office, Box 5698, or to J. A. Crawford, Apt. 25-C Vetreuil. Tell us what you want to read about.

Let's jump into the world of records. The following are representative sides picked at random from recordings on the market at the present. If we review them, you can buy them in Raleigh. First on the popularity list is a new set of sides by the Sauter-Finnegan band. They're named "Moonlight on the Ganges," and "April in Paris." The

Sauter-Finnegan Band is still in the workshop stage. They have a big sound, big Glen Miller arrangers, and much variety. Best of all, the band moves. At press time, the band has issued six sides which are all different. This is to see what and how much the listeners will take. So far, sales have been better than expected, and the band is catching on. "April" has a trombone highlight by Bill Harris, while "Moonlight" has some interesting effects by Eddie Sauter's Kazoo.

Johnnie Smith has placed a tag on the very pleasant record of "Moonlight in Vermont." The entire production is tasteful, orderly, and relaxed. Its hard to believe that the arrangement is in the modern, jazz idiom. Its worth the price of admission.

For the L. P. Collectors, lets rave a bit about Les Brown's new "Musical Weather-vane" record—eight selections for listening, dancing, or jumping. Included are the old standards, "Blue Skies," and "Stormy Weather." This costs

about \$3.00, but the eight selections are worth it.

I took in the Woody Herman Show in Raleigh on Tuesday. The show featured Dinah Washington, the Mills Brothers and other acts, but the Woody Herman Third Herd stood out very easily from the usual offerings presented in Raleigh. The Third Herd is sparked by "Coach" Chubby Jackson, as usual, and has an excellent sax section that holds the big band down very tightly. Remaining, along with the exceptional and lasting Ralph Burn's arrangements, was the buoyant spirit and drive of the entire aggregation.

Now we should have a plug for one of our better quality disc-jockeys in the Piedmont area. Charlie Cash, broadcasting from radio station WTIK in Durham, has air time from 3:30 until 5:00 p.m. on weekdays. When it comes down to good recordings of every type, with the exception of folk music, its Charlie Cash and the "Cat's Rat Race."

# Special Feature

**EDITOR'S NOTE:** The following piece of non-fiction appeared in the September issue of *HARPER'S* and is presented for *TECHNICIAN* reader enjoyment by special permission of the author, Bentz Plagemann, and the publishers. Space permitting, the entire story will be run in this issue; however, our readers might prepare to carry the train of thought over until next week. Anything can happen, and it always does when we try to run a full-length feature. Nevertheless, here it:

## Boy Into Man

The day our boy left for boarding school was an emotional, if not to say trying, day for all of us. I had taken the day off, to drive him to the school, and I slept late, wishing to avoid the early morning confusion, since "Goggle" (a private nickname I will employ to avoid embarrassing revelations) had asked his close friend, Alan, to spend the night. Breakfast on these mornings usually had an element of whimsy about it.

I knew how it had gone when I was awakened by the sound of voices under the window. My wife was in the car to take Alan home, and she was having trouble getting out of the driveway.

"Ma," I heard Goggle say, in the intolerable, flat voice of adolescence, which falls on the ear like an air-hammer attacking an asphalt paving, "why don't you put her in reverse?"

"Because I do not wish to," my wife replied. Her voice was tight with the restraint which indicated that she had been pushed too far, and wearily I sat up on the edge of the bed, thinking, it's the last day. Then it hit me again, as it had been hitting me for the past several weeks, only harder. Goggle was going away to boarding school.

I was downstairs drinking coffee when they got back, and while Goggle was outside under the car, trying to see if that new knock meant that the block was about to fall right out on the pavement, my wife told me how her day had begun. Alan had been balancing a

large wooden salad spoon on his finger while waiting to be served (if it occurs to you to ask why he would be holding a large wooden salad spoon at the breakfast table don't imagine for a moment that I can enlighten you) and when his plate was put before him the spoon fell. There were still egg splashes on the wall, and the pieces of broken plate were gathered together on the draining board, together with the pieces of the ironstone cake plate that Goggle had broken the night before while using it to demonstrate a football play.

"At least I got Alan home," my wife said. "Now if I can get Goggle to concentrate on packing his things I think I will survive the day."

I went out and coaxed him from under the car (the front axle looked very doubtful, the exhaust pipe was worn through in two places, and there was some mysterious thing "hanging down" which probably meant that we needed a new universal joint) and he ascended to his slave labor with deep, pitiful groans.

"What do I need all this junk for?" he called from his room.

I had asked myself that same question many times in the weeks before. When the list had come from the school my wife attacked it dutifully, and now in Goggle's room beside the open foot locker, the Navy duffel bag, and the suitcase were the neat stacks of sheets, towels, blankets, washcloths, and pillow cases (my wife's fingertips were still numb from sewing on name-tapes), and I found these objects understandable enough, but the "dark" suit for dress, the jackets for classroom wear, the broadcloth shirts with button-down collars, and especially the "dress" hat were completely incomprehensible to me. Who was going to make Goggle wear them?

His normal dress was a pair of blue jeans. When he went to bed at night my wife was usually too exhausted to pick them up from the floor and put them in the clothes hamper, and Goggle got up so early that she never got to them first, so usually the same blue jeans were worn until they began to come apart at awkward points of stress, and then he was persuaded to ease into another pair. With these he wore, I think, socks, although I can't be too sure, and shoes that had once been recognizable as such, but soon came to resemble those foot coverings seen in news pictures as worn by Korean Communist prisoners. His costume (a carefully chosen word) was completed by a jersey of some kind, and either a red cap, or a large straw hat from Mexico. I was so accustomed to seeing him dressed in this way that I rather resented the clothes upstairs myself.

"Please go up and get him started," my wife said. "You do it so much better than I do. It's sort of man's work anyway." I accepted this transparent device with the silence it deserved, and started upstairs with deep, pitiful groans of my own.

"And please do something about his ties," she added. She was standing at the foot of the stairs and Goggle heard her.

"Aw, Ma," he said. "I've got a tie."

Actually Goggle had two ties. One was a family plaid, given him as a child. When tied it came down, roughly, to his sternum. The other tie he had won at a party as a prize for something or other. It was red and blue rayon with a picture on it. I could really never bring myself to look at it, so my impression of it was rather hazy, but violent. It was my wife's idea that Goggle should make a selection of ties from my supply. My lack of enthusiasm for this project mystified her.

"Let it go," I said. "If he needs

ties he can write to us after he gets there." I went into his room and looked at the wardrobe and supplies laid out for packing. It seemed like a stage manager's careful planning for a production that would never come off.

I began to pick up things. "Here is your new razor and shaving brush," I said, in a loud hearty tone, wondering if a mother felt the same awkwardness about her daughter's first brassiere. "I won't be around to tell you when to take a fast shave, so you'll have to look in the mirror once in a while. Remember," I said firmly, "nothing is more offensive to a grown man than peach fuzz on a boy's upper lip. It shows he doesn't respect himself. Are you listening?"

Goggle was now tying a monkey's fist knot in a length of cod line. "Huh?" he said, after a moment.

"Listen," I said, trying to make my exasperation sound like cool reason, "if you don't do this job with me you won't know where your things are. Give me a hand here."

"What do you want me to do," he wailed, quick adolescent tears springing into his eyes.

"Just stand there and hand me things, and watch me," I said, the bottom dropping out of my stomach, wanting to lock the door and stop the clock and keep us from ever growing older.

We worked in silence for a moment. "Now," I said quietly, "I think I've remembered to tell you everything I wanted to tell you. But about your roommate. Give him a chance, but if you draw an absolute stinker, you don't have to put up with it. Write to me. Don't suffer in silence. You really don't have to put up with anything, you know. You can always come home."

"Oh, it doesn't matter," Goggle said with gusty despair. "I'll get some queer who doesn't know A from B. It always happens to me."

I reminded myself quickly (a) that "queer" didn't have the same connotation for Goggle and his contemporaries that it had for me and mine, (b) that Goggle had never been anywhere alone except for one two-week period at a summer camp, so I tried to dismiss from my mind the picture of Goggle as Oliver Twist that his tone had called up.

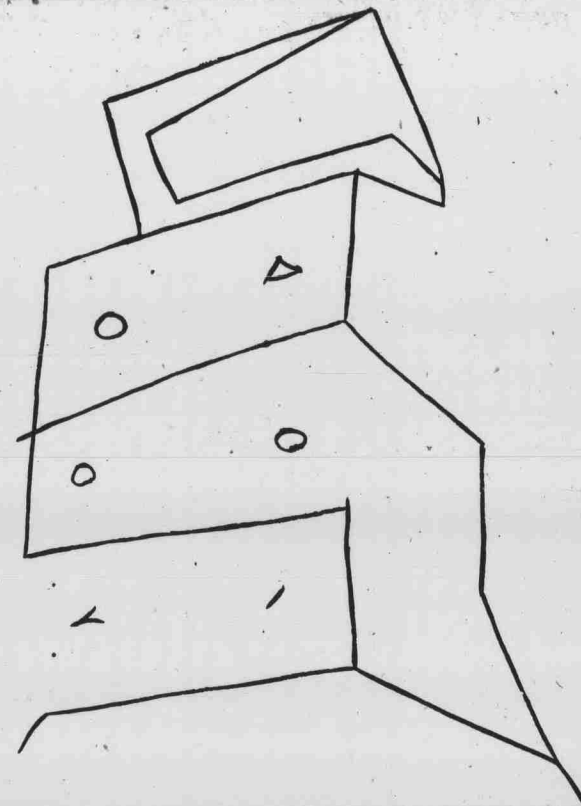
"Here are some envelopes I've addressed for you," I said. "Please write to us. I've tried to make it as easy as possible for you."

A quick grin broke over Goggle's face, like a rainbow after a storm. "If you'd write the letters," he said, "all I'd have to do is sign them and put them in the envelopes."

Later, when I had given over to my wife (it takes a woman to inspire man's work, as I pointed out), she said that she saw me wandering outside, looking as if there had been a death in the house.

Actually I was indulging in an orgy of sentimental reminiscence, rather like Madame Ranevsky in the last act of "The Cherry Orchard." Nothing would ever be the same again. There was Goggle's bicycle propped up on the front lawn. The plastic canary with the feather tail, which he had bought with money earned cutting the lawn, was clipped to the handlebar. I would have to tell him to take the bicycle to the basement. Would it mold there? Would he ever ride it again? Was it a part of his childhood, gone forever?

I walked by it disconsolately and saw, still hanging from a branch of the pine tree outside his window, the length of radio aerial with a condenser on the end, part of an abandoned project, which I had asked him at least two dozen times to remove. I did not like it there. On windy days it gave our house an air of disaster, as if we had been struck by lightning, or were foundering at sea. Now I didn't think I could ever bear to have it taken away.



In the back of the house, from the old oak tree, our tire chains hung from a limb in a similar manner. They had made the ladder by which to climb to the tree house. The tree house itself had been dismantled earlier in the week by Goggle and Alan, who was going away to a different school. It had been taken down because "they"—those secret enemies who lurked everywhere—might come in and wreck it, or even profane it by using it as a tree house. The lumber was stored in the barn against the day when a greater, more magnificent tree house would be constructed. Now I was convinced this would never be.

I remembered only too vividly the last construction. It had been a very hot day during the World Series. The architects, to entertain themselves while working, had managed to take a portable radio to the tree by connecting every extension cord in the house. Together with hammering, heated arguments over construction details, the radio turned to its full volume, I had found it rather difficult to concentrate on my work in the study inside. After lengthy reflection (patience), they're only young once, you'll lose your temper and make a fool of yourself, your nerves aren't what they used to be) I had lost my temper, rushed out, where I made a fool of myself, brought about catastrophe, tears, cessation of all work, both in the tree house and in the study; and the rest of the afternoon was spent in silence, followed by remorse, followed by placating conversation on both sides, followed by sodas at the drug store.

Now I looked at the dismal tire chains. I would never be able to climb up and get them when winter came, and Goggle had forgotten to remove them from the limb where they were nailed. They would hang there and clank rust, while in the house we grew old and confused and deaf, left alone in our grey backwater of old age.

I went around and sat on the front steps. Goggle had sat there beside me on the day when, pale and strained looking, he had asked me where Sing Sing was. He might have to go there some day, he explained. It wasn't until a week later that we learned that it had been Goggle who shot out the windows of the new house, with his own little air rifle which I had given him for his birthday. That had been a sentimental crisis. I still had a file of correspondence with insurance company adjusters to prove it. But most of all it had been a crisis because Goggle had to break down and admit his guilt himself. No one had seen him because it was Decoration Day and we were all up at the flagpole with the older boys watching the American Legion Honor Guard fire its rifles. But Goggle had come through. He had admitted it when others were accused. (Awfully good material for a Presidential campaign.)

It was on the front steps, too, that Goggle's mother had found him with his arm around the waist of his town flirt, little Alice of the tight pants and the painted toenails. She made the rounds of the town and it had been Goggle's turn that season, and all that his mother objected to, she said, was his public behavior. While she took him into her room to tell him about women, I sat alone and smoked cigarettes morosely, pondering on the harassed state of man, eternally caught between Mother and That Girl. I was unusually patient with him for the next few days, and in my thoughts I spoke of him as "poor Goggle."

I think it was shortly after that I felt impelled to give him the Facts of Life Talk, all ill-starred venture which broke down in the middle when we both began laughing too much to talk. We would discuss it in more detail later, I said, lying in my teeth. Goggle

(Continued on Page 6)



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Union Film

Ruggles of Red Gap, one of Charles Laughton's earliest and best remembered pictures, will be presented by the College Union Sunday night.

In the humorous role of an English butler mistaken for a nobleman, Laughton gives a delightfully entertaining performance.

The mischief starts when Ruggles, valet to a British aristocrat, becomes the property of another due to his master's imperfect poker skill. Upon his migration to Red Gap, a little western town in the United States where his new owner resides, a bit of confusion results in Ruggles being mistaken for an English colonel and finding himself a person of notoriety. When the impersonation is later discovered by his former master, things really begin to happen.

Noted for an abundance of fine performances, the picture also features Charles Ruggles, Zazu Pitts, Mary Boland, and Roland Young in supporting roles.

Will Upped

Rex T. Willard, electrical engineering graduate of N. C. State, and sales application engineer in the Atlanta, Ga., office of the Reliance Electric & Engineering Company, Cleveland, Ohio, has been transferred to the company's Birmingham, Ala., area, according to an announcement made today by E. G. Orahoad, Reliance's Southeastern district manager.

In his new post, Willard replaces Robert B. Reed, who has been transferred to the company's sales application engineering staff at Detroit, Michigan.

Born in Winston-Salem, N. C., Willard joined the Reliance organization in the spring of 1951. He is a member of the American Institute of Electrical Engineers, Eta Kappa Nu, Tau Beta Pi, and Phi Kappa Phi.

LEGISLATORS LAMBASTING

The N. C. State Student Legislature will meet in the State Capitol building the 20th, 21st, and 22nd of November. Schools all over the state will send members to Raleigh where State College as one of the local institutions of higher learning will play co-host with Meredith, Shaw, and St. Augustine's.

State will be represented by fourteen students, three of whom will serve in the Senate and eleven of whom will be members of the House. The State College Delegation will introduce two bills one which is entitled: A BILL TO REMOVE JOHN W. and DAVID CLARK FROM THE BOARD OF TRUSTEES OF THE GREATER UNIVERSITY OF NORTH CAROLINA, the other is: AN ACT TO AMEND SECTION VI OF THE CONSTITUTION OF NORTH CAROLINA SO AS TO PERMIT QUALIFIED PERSONS OF EIGHTEEN YEARS OF AGE AND OVER TO VOTE IN THIS STATE.

State College was represented on the Interim Council, which lays the plans for each session of the legislature, by David Phillips and Eddie Ingram. Ken Pennagar of Chapel Hill is the state wide chairman.

During World War II, he was a pilot in the U. S. Army Air Force for four years.

Married to the former Miss Pauline E. Prather of High Point, N. C., he and his wife have one son, Donald Rex, and reside at 2488 Williams Lane, Decatur, Ga.

Go, Glee

The State College Men's Glee Club and the U. of N. C. Girls' Glee Club are collaborating in the preparation of a concert program to be presented here on November 23. The yuletide theme will pre-

Engineer Exams

The U. S. Civil Service Commission has announced examinations for filling Engineer and Engineer Trainee positions in the Bureau of Reclamation in the West and Midwest. Salaries for Engineer are \$3,410 and \$4,205 a year, and for Engineer Trainee, \$2,950 and \$3,175 a year.

The Engineer Trainee examination is of special interest to sophomore and junior college students, as it is open to persons who have completed or expect to complete by June 30, 1953, one-half or three-fourths of a college course in engineering. Applicants must also take a written test. Applicants for the Engineer examination will be rated on the basis of their education or experience only.

Further information and application forms may be obtained at most first- and second-class post offices or from the U. S. Civil Service Commission, Washington 25, D. C. Applications for Engineer Trainee will be accepted until December 2, 1952, and for Engineer until further notice, by the Executive Secretary, Board of U. S. Civil Service Examiners, Bureau of Reclamation, Denver Federal Center, Denver, Colorado.

dominate in the program in which the individual clubs will be heard separately as well as jointly. The string section of the State College Orchestra will also present a special number in addition to accompanying the mixed chorus in Bach's Christmas Cantata, number 142, which will close the program.

A bio science teacher at Michigan State told his class he was disgusted because so few of his students believed in flying saucers. Then he reached into a bag and started hurling china plates across the lecture room.

Cotton Maid

Attention co-eds, and sisters of State College students! If you would like to tour the United States and Canada and wind up with a trip to Paris, perhaps you would be interested in the following information released by the National Cotton Council.

The most extensive European visit in the history of the Maid of Cotton tour, stops at three Canadian cities, and appearances in at least 27 major U. S. cities will make up the itinerary of the 1953 Maid of Cotton.

The girl who is chosen to serve King Cotton as his fashion and goodwill ambassador will fly to Paris on a swift Air France luxury flight. She will spend six days there and then will visit three other European capitals to be announced later by the Cotton Council.

The Canadian journey will include visits to Montreal, Toronto, and Hamilton. The 1953 Maid will be the second to visit Canada in behalf of the U. S. cotton industry. Pretty Pat Mullarkey, 1952 Maid of Cotton, spent two weeks in Canada last June.

The lucky girl who is selected to carry the cotton industry's colors in 1953 will travel from coast to coast across the United States.

The girl who will make this thrilling journey for the American cotton industry will be chosen at Memphis, Tenn., Dec. 29-30. Entries now are being received in the Maid of Cotton competition.

The contest is open to any girl born in a cotton-producing state, who is between the ages of 19-25, has never been married, and is at least 5 feet 5 inches tall. Information and contest entry forms can be obtained from the National Cotton Council, Box 18, Memphis, Tenn. All entries must be post-marked no later than midnight, Dec. 1, to be eligible.

Contest officials point out that applicants will be judged on the

basis of personality, poise, intelligence, and background, as well as beauty. They stress that the Maid of Cotton competition is not a beauty contest, but that other qualifications will be given equal consideration.

The 1953 Maid will be the fifteenth to make the breathtaking cotton tour. The Maid of Cotton contest and tour are sponsored annually by the National Cotton Council, the Cotton Exchanges of Memphis, New York, and New Orleans, and the Memphis Cotton Carnival Association.

During the course of her six-month tour, 1952 Maid of Cotton Pat Mullarkey traveled more than 65,000 miles to show the smartest cottons of the season in all-cotton fashion shows and to deliver the cotton industry's greetings to government and civic leaders at home and overseas.

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BOY INTO MAN—

(Continued from Page 4)

would have to learn as I had learned, catch as catch can.

None of us felt much like lunch that day, so we decided to start early and stop for a sandwich somewhere along the way. We got the foot locker and the duffel bag and the suitcase into the car. (Google had taken one last magnificent, flying ride on the bicycle, wearing his Mexican hat, before he put it away in the basement.) When we were ready to get into the car he ran back for his Bluejacket's Manual. If he was completely surrounded by dopes he could always tie knots to pass the time away. He put a great length of rope in the car for this purpose, but after some reflection he took it out again. We could always send it to him. His pockets were stuffed with cod line and that would have to do for the present.

It was a beautiful fall day, but we drove unseeing through the New England hills, where every tree was consuming itself in a great blaze of glory. None of us spoke very much, and when we did think of something to say it came out explosively, too loudly, and then stopped suddenly. Nobody answered anybody.

We stopped for a sandwich, but while we ate we fed the jukebox with nickels so that we wouldn't have to talk, and after that, almost before we knew it, we were at the school, placed on its groomed cam-

pus as beautiful and complete as a Grant Wood painting. I regretted that I hadn't washed the car. The chrome, especially, looked terrible. My wife was too nervous to speak. Her Sunday hat was perched on top of her head. All the women always wore hats when they visited boarding schools, she explained. And tweed suits, and their lives were in immaculate order, and they were clear-eyed, and energetic, and definite, and mothers of men to the teeth, and she wished she could hide somewhere until it was all over. (To Be Continued Next Week)

Cox Scholarship

Bennett Briggs White of Plymouth is the 1952 winner of the Hulda Johnston Cox Scholarship in the School of Forestry at North Carolina State College, Dean Richard J. Preston announced today.

The \$500 award is presented annually to the top-ranking member of the junior class in the college's School of Forestry. It was established at the college by the Ralph K. Cox Paper Company, Inc., of Wellsburg, W. Va., which maintains its Lumber Manufacturing Division in Dover, N. C.

The company created the scholarship at State College as "a living tribute to Mrs. Cox's capacity as a guiding counselor and outstanding woman." She is the widow of the company's founder.

Formal presentation of the award to White was made Saturday at Hill Forest, near Durham, where students in the State College School of Forestry held their annual Rolleo.

White, son of Mr. and Mrs. Nelson M. White, Sr., of Plymouth, is a graduate of Maury High School in Norfolk, Va. He is a native of Norfolk and attended Duke University before enrolling at State College in September, 1951.

The 21-year-old student is a junior in forest management at the college and has been active in the affairs of the Campus Government and the Forestry Club. He is a member of Xi Sigma Pi, the national honorary forestry fraternity. Dean Preston said White has "an outstanding scholastic record."

The funds for the establishment of the Hulda Johnston Cox Scholarship were donated by Mrs. Cox's two sons.

Another feature of the Rolleo program was the presentation of the annual Xi Sigma Pi award to John Wallace Tester of Lenoir, who was honored for his outstanding scholastic achievements as a freshman last year.

With the Greeks

By ED STRICKLAND

This weekend all attention seems to be focused on the social side of college life. The Theta Chi's had their brothers from Wake Forest, Duke, and Chapel Hill over Wednesday night to party with their famed brother Sammy Kaye. Sammy Kaye was in Raleigh for a one night stand at Memorial Auditorium.

The Kappa Alpha's join forces with Sigma Nu tonight for a pre-dance party. Kappa Sigma started the weekend with a party for tonight to be followed up with a banquet tomorrow night before the dance. Sigma Pi will have a small "Combo" in tonight to start their weekend.

The Pika group took Sigma Chi over in football to the tune of 8-0. Teke's broke into the win column last week when they took P.E.P. 13-12.

The P.K.P. boys are eating over at the Teke house now. The Teke's have a new house mother who really turns out the fine food.

At this time it is still not certain whether or not there will be a concert Saturday afternoon. Latest word has it that Tommy Tucker cannot reach Raleigh by four o'clock. Last minute arrangements to set the concert up to four-thirty or five o'clock. Each fraternity will be notified by telephone just as soon as some arrangements are made.

There are already conflicts in the date planned for mid-winters. At present it is hoped that the dance will be February 27th and 28th. It will be necessary to use Frank Thompson Gym for the Friday night dance and then move to the auditorium.

"C" average (29 students), or withdrew completely (12 students) before the end of the semester.

2. Thirty of the 110 students (29%) achieved an average index of 1.10 in their semester's class-work. This category is characterized as marginal—on the average their honor point surplus was either slight or non-existent for the semester. A little bad luck in the form of illness, unusual demands in some classes, extra responsibilities at home, etc., could easily have kept them from getting a "C" average.

3. Thirty-nine of the 110 students (34%) achieved above 1.50 in their semester's work, distributed as follows: 24 (21%) attained an average index of 1.65 (average class load: 10.4 hours); 15 (13%) attained an average index of 2.22 (average class load: 7.1 hours). This combined category is characterized as successful in adequately meeting all the responsibilities involved. It represents approximately one out of three students attempting to combine a full time job with attendance at college, and doing it with better than marginal success.

4. Further analysis of this group of 110 shows that the maximum class load allowed should be less for students in the lower third by A.C.E. grouping (7-10 hours) than for students in the upper two-thirds by A.C.E. grouping (11-13 hours).

5. A student's chances for achieving success in his college work while employed full time, according to this brief study, seem to be as follows: He has 1 chance in 10 of achieving 2.00 or slightly better in his class work; He has 2 chances in 10 of achieving 1.50 or slightly better in his class work; He has 3 chances in 10 of achieving a bare marginal status (1.10—not success) in his class work; He has 4 chances in 10 of outright failure to earn a "C" average in his class work. (Odds on above chances—7 chances to lose; 3 chances to win)—Students in the lower third by A.C.E. grouping should never exceed 9 hours; Students in the upper two-thirds by A.C.E. grouping should never exceed 12 hours.

6. These statistics should be publicized among students and used extensively in counseling students considering full time employment.

At Brown University there has been considerable discussion over a piece of sculpture gracing the Quadrangle, principal walkway on the campus. An editorial in the Brown Daily Herald says its absurd to place a statue of Augustus Caesar amid Georgian Colonial architecture.

As out of place, says the Herald, as a statue of Washington in the Coliseum, or of Harry Truman in Lower Slobovia.

Ceramic Scholarship Contest

Ferro Corporation, of Cleveland, Ohio, will award FIVE CASH PRIZES for the best papers, of 3,000 words or less, written by students on any phase of technology related to the Porcelain Enameling of Metal. In its Fourth Annual Student Contest, the Ferro Corporation invites both Graduate and Undergraduate Students in United States Ceramic Engineering Schools to submit entries.

Papers may be based on theses or dissertations, but must not be verbatim copies. The paper must be entirely the student's own work.

AWARDS: First prize, \$500.00 cash; second prize, \$300.00 cash; third prize, \$100.00 cash; fourth prize, \$50.00 cash; fifth prize \$50.00 cash.

Contests opens immediately. Entry blanks must be submitted by January 26th, 1953. Contest closes at Midnight on March 23, 1953.

Date of Awards: The prizes will be awarded at the 55th Annual Meeting of the American Ceramic Society, which will be held at New York City, on April 24-28, 1953.

Eligibility: The contest is open to all registered students in Ceramics or Ceramic engineering, graduate or undergraduate. Contestants must be registered students in the United States, majoring in Ceramics or Ceramic Engineering.

Format: The paper should not exceed 3,000 words in length and must be written or typed on 8 1/2 by 11 inch paper, one side only, with one and one-half inch margin. All charts and photographs must be mounted on 8 1/2 by 11 inch paper to conform with the written material. All illustrations, tables and references must be clearly numbered.

Name of contestant should not appear on the manuscript itself, but should be written or typed on a separate sheet of paper and attached to the manuscript. Name-sheet should also, for identification purposes, give title of paper. This is requested so that in judging, the judges will have no knowledge of author. It is also desirable, but not necessary, for the student to send with his paper a picture of himself, along with about 75 words of information about his place of birth, schooling, other activities, etc.

Note that the contest closes at midnight, March 23, 1953. All

papers bearing a post-mark before that time will be eligible if an entry blank has been filed previously.

Entry Blanks: Each student intending to participate in the contest must submit complete entry form to: FERRO CORPORATION, 4150 East 56th Street, Cleveland 5, Ohio. It should be marked: Attention: R. C. Harmon, Dept. of Public Relations.

Work Your Way And Hurt Grades

Does outside work affect the grades and attendance of students? Do students who work their way through school do as well in their work as other students? According to a report released by Michigan State Normal College the study seemed to show that many age old theories about students who work their way through school may be exploded.

According to James E. Green, assistant to the president, the report seems to strike a rather telling blow at the old romantic concept that the student who worked his way through college, somehow got more out of it than the student who did not. He points out that "the study has been confined only to those students who worked full time, but it is obvious that such a work load had a very bad effect on their college work."

In an effort to get more objective data on the scholastic performance of students working full time, the report discloses, a brief study was made of 110 cases enrolled in the Spring Semester 1952. Partial conclusions follow:

1. Forty-one of the 110 students (36%) either failed to achieve a

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SPELLING—

(Continued from Page 2)

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## THERE'S A WRIGHT AND A WRONG WAY

By EDITH PILCHER

Five staff members of the School of Engineering at North Carolina State College, each a specialist in a different field, are combining their talents on a research project for the Wright Air Development Center of the U. S. Air Force.

The group, under the direction of Dr. William C. Bell, ceramic research professor, includes Edward L. Manning, assistant professor of electrical engineering; Leonard W. Long, assistant professor of engineering mechanics; Richard D. Dillender, ceramic research engineer; and Harold Lominac, mechanical research engineer.

The problem on which they are working is a highly involved one relating to materials for constructing turbine blades for jet aircraft engines—a problem of vital importance to national defense. Other applications are also foreseen which will be useful to all machine tool and ceramic industries, as well as

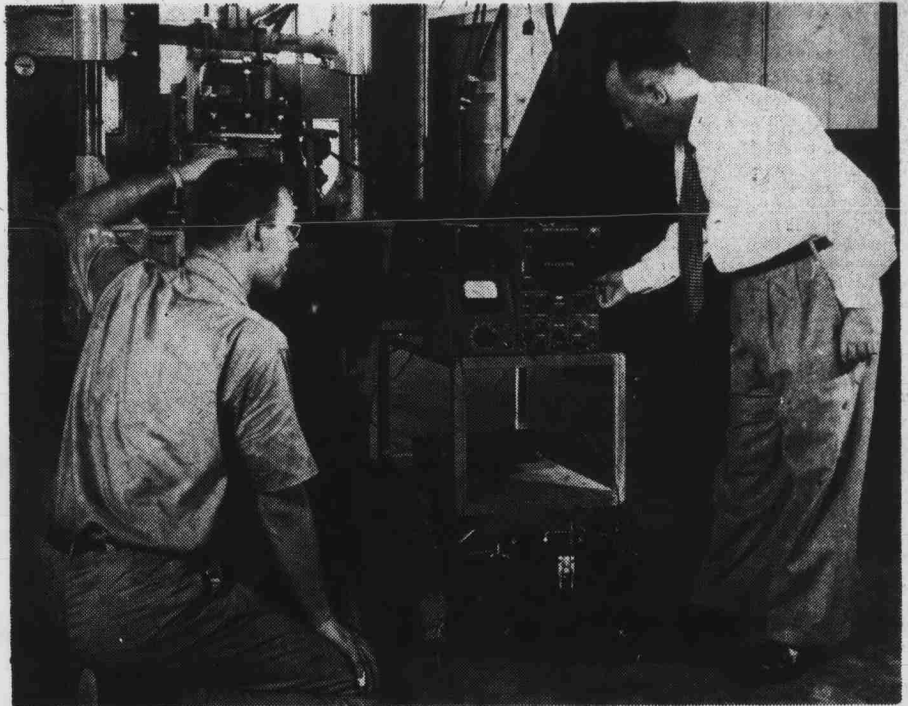
other consumers of ceramic or metal parts.

The group is working with powdered forms of minerals—both metals and non-metals—attempting to achieve very high strength and density and to eliminate shrinkage in products formed from these materials.

They have adopted a fundamental approach to the problem on which essentially no previous experimental work has been done. They are endeavoring, by means of vibration, to pack samples of fine powders so tightly that the forces of molecular attraction will be effective in holding them together.

Although the investigation is being conducted in the ceramic research laboratories, it has ramifications in several fields of engineering—fluid mechanics, electronics, and mechanical design, as well as ceramics. This accounts for the battery of experts who are collaborating on the project.

## THEY POWDERED THEIR MINERALS



Members of the State College engineering staff engage in research for the Wright Air Development Center of the U. S. Air Force, developing components for jet aircraft engines. Edward G. Manning, Assistant Professor of Electrical Engineering (left), and Dr. William C. Bell, Ceramic Research Professor (right), are shown analyzing vibrations being applied to samples of materials under development for the construction of turbine blades.

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Since there is practically no fundamental information available to be used as a guide on this problem, it involves a great deal of experimentation. The scientists are experimenting with different frequencies, amplitudes, and acceleration of vibration and with pressures under which these vibrations are applied. They are also testing the effectiveness of differing particle sizes and shapes on the packing characteristics.

The division of responsibility goes something like this. The preparation of powdered samples is under the supervision of Professor Dillender, ceramic engineer, who carefully formulates composition and particle size distributions to be studied. Following the vibration studies, he subjects test specimens to heat treatment and then physical testing.

The specialist in mechanics and fluid mechanics is Professor Long. He is utilizing his technical experience in the design of equipment to study the application of established fluid principles to the problem, since it is believed that the behavior of powdered materials under acceleration is analogous, in some ways, to that of fluid behavior.

Professor Manning, the electronics expert, is responsible for a wide variety of electrical and electromechanical power sources of vibration. He is also developing methods for measuring the frequencies, amplitudes, and accelerations of these vibration sources.

The design of special machinery and molds required for applying these vibrations has been undertaken by Harold Lominac, the mechanical engineer. In addition, he supervises the fabrication of these devices and assists in the physical testing of specimens.

Also employed on the project is George Obenshain of Bristol, Tenn., an engineering student laboratory assistant, who works with each of the investigators when an extra hand is needed.

Dr. Bell, the project director, is widely experienced in research, and his technical proficiencies far exceed the limits of any one field of engineering. Upon his shoulders rests the job of coordinating the work of all the specialists.

The members of the teaching staff who are engaged on this research project were able to devote their full-time to the investigation during the past summer, and they are working on it part-time throughout the school year.

# Student Voice

Fifty-five delegates, representing 18 colleges and universities throughout the country, met at the University of Chicago, Oct. 11-12, 1952, to formulate plans and implement the program of the National Student Conference for Academic Freedom, Equality and Peace. The NSC, which was formed last spring at a conference in Madison, Wis., is dedicated to the promotion of national student unity to meet the growing crisis in education that has resulted from the danger of a world war.

In the main report to this Continuations Committee meeting Mr. Clarence Jones, a student at Columbia University and National Co-Chairman, said that "the numerous attacks being made on Academic Freedom by the 'royal inquisitors' of the McCarran Committee made it imperative that students unite to preserve their American heritage." He proposed that NSC sponsor an Academic Freedom Charter to be signed by 500,000 students. This charter would be put forward as a credo for American Freedom and rededication by students of their determination to fight for this objective. He outlined the possibility of support for this charter culminating in a National Academic Freedom Week on campuses throughout the country sometime next spring.

In view of the precarious state of peace talks in Korea, the Conference adopted a proposal that students everywhere stimulate activities for the demand that an Immediate Cease Fire be called in Korea and outstanding differences be settled after the fighting stops. In addition, the Conference took concrete steps for implementing a program for developing International Student Exchange of delegations and educational materials to help strengthen international cooperation and friendship.

The NSC also adopted a resolu-

tion giving full support to the NAACP in the Claradon County Supreme Court Case, which involves the challenging of segregation in the Southern educational system. The Conference discussed concrete ways in which it could aid the local fights against all manifestations of discrimination in education.

The entire Sunday session was devoted to plans for implementing the growth and organization of the USC. The delegates were mainly concerned with measures that could insure the fullest aid and development of local campus action committees and organizations and the building of local, regional and national coordination around the program of the Conference. A national organizational structure was carefully defined and established to fulfill this objective, with its National office in New York and Commissions that would concentrate on the three aspects of its work in different areas of the country.

The newspaper of the NSC, Student Voice, was discussed at length, with the conclusion that this would be a newspaper not only to reflect the views and program of the Conference, but one that could become an open forum for the expression of different student opinions on the most vital issues of the day—Academic Freedom, Equality and Peace.

Wilfred Callender, a student at Brooklyn College, was elected editor of Student Voice, and temporary Regional Coordinators were elected, pending the holding of regional conferences.

Quarterback Charles (Sonny) George, who will direct Wake Forest's offense against N. C. State Saturday, is the leading scorer for the Deacons this season with 28 points. George has scored three touchdowns, placekicked seven extra points, and made one field goal.

# IFC Sponsors Announced



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Pictured here are the sponsors of the Interfraternity Council's Pledge Dance to be presented in the William Neal Reynolds Coliseum at State College Saturday night, November 15, from 8 p.m. until midnight. Music will be provided by Tommy Tucker and his orchestra. Shown here are the sponsors, with their escorts listed. Top row, left to right: Dot Johnson of Raleigh with George Winecoff of Albemarle, Sigma Chi dance committee member; Patricia Milne of Plainfield, N. J., with W. C. Harris, Jr., of South Orange, N. J., Sigma Nu, dance committee chairman; Anne O'Quinn of Lillington with Boyd Sharpe of Burlington, Theta Chi; and Jane Gullede of Durham and Albemarle with Frank Winecoff of Albemarle, Sigma Chi. Middle row, left to right: Jewel Wheless of Rocky Mount with Franklyn C. Goode of Kenosha, Wis., Sigma Nu; Jacqueline Rogers of Raleigh with Leroy Jackson of Benson, president of the Interfraternity Council; Martha Ann Cope of Raleigh with D. O. Bullock of Rocky Mount, Sigma Pi; Betty Wilson of Roanoke Rapids with Novarro Hux of Roanoke Rapids, Sigma Pi; and Patsy Daniels of Raleigh with R. L. Mimms of Durham, Sigma Pi. Bottom row, left to right: Dot Hunt of Kinston with John Cunningham of Winston-Salem, Sigma Phi Epsilon; Peggy Jo Dalrymple of Raleigh with J. R. Kirby of Kenly, Tau Kappa Epsilon; Mary Jane Warrick of Smithfield with George Brannan of Dunn, Tau Kappa Epsilon; and Helen Blair of Gastonia with Wesley Styers of Gastonia, Sigma Phi Epsilon.

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## NEW CERAMIC DEVELOPMENTS

The development of three new lightweight structural materials are among the most far-reaching accomplishments of the Ceramic Research laboratories in the NCS School of Engineering. Directing the department is Dr. William C. Bell, research professor and his staff of six full-time graduate engineers, all with advanced training, in addition to two part-time employees.

About the developments, one is a new type of clay aggregate, used to form porous concrete or masonry units. The other two are new types of clay building blocks, one of which is particularly well-adapted for heavy construction work, such as foundations.

All these materials are extremely lightweight and have many advantages over their heavier counterparts. They require less steel and less foundations for the support of any structure and larger units can be handled with the same amount of effort formerly expended on smaller, heavier units. There is a resultant saving in labor and materials, as well as cost.

Also, the materials have improved acoustic and insulating characteristics, and do not shrink or expand to any damaging extent, as concrete construction is apt to, with temperatures and moisture variations.

Reports on these developments have been widely published in technical journals and building trade magazines in this country and in Great Britain, and have been very well received. However, the materials were developed largely from North Carolina clays; therefore these findings should be particularly beneficial to local industry.

Another project, now nearing completion, is concerned with two primary problems. The first of these is a means of lowering the firing temperatures required in producing brick from local clays. This has been accomplished by adding small amounts of other substances. It appears that significant fuel and other processing economies will result.

The second problem is concerned with the reduction of shrinkage in the brick when they are dried and fired. Excessive shrinkage of the clay is responsible for the cracking and distortion sometimes noted in brick. Laboratory investigations (Continued on Page 15)

## Old War Story

It was D-Day and America's invincible invasion force was crossing the English Channel.

An officer, sitting in the forward part of a small vessel had the brilliant idea of giving the men a little pep talk.

"Men, we all recognize that fear itself is a healthy sign," the officer began, then stopped short as a private raised his hand.

"Sir," said the soldier, "you are looking straight at the healthiest private in the whole U S Army!"

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# DORM DOINGS

It's been a long time since as much enthusiasm, spirit, and whole-hearted cooperation, has been shown on the State College campus over anything, as it has over the fund-raising TV drive now going on in the upper quadrangle. When a man borrows money—actually goes in debt to contribute to a drive, that is undoubtedly the last word in cooperation, and the ultimate in sacrifice and work for the common good. Such cooperation, spirit, and sacrifices have been demonstrated quite clearly recently by the students in Berry, Bagwell, and Becton dormitories, or by the greater part of them at any rate.

It all started when one alert IDC social director thought of the idea of getting a television demonstrator set in the Berry social room so the students in the area could watch the election returns. Hugh Leatherman, Berry social director, acted on his "brain child," and from that day to the day of this writing, the upper quadrangle students have enjoyed the entertainment afforded by a 21 inch TV set, properly installed to get the finest reception. At one time on election night as many as 40 to 50 interested onlookers could be counted in the Berry social room intently viewing the TV election returns. Many others wandered in and out

during the night. The table model set, gladly installed by a local dealer, performed admirably, and all in the assemblage got a clear picture of election night activities.

Out of all this grew an expressed desire by many of those who saw the set on Tuesday night that an effort be made to keep it in the Berry social room for the continued enjoyment of the B-B-B students. Agreeing with this desire and realizing that the best time to sell a product is when you have the goods on hand to show the customer, a group in Berry quickly got together and mapped out their fundraising strategy. Immediate action was their decision, and the drive got underway promptly on Wednesday night. The set on demonstration carried with it a price tag of \$465.00 installed with a booster and aerial. Investigations since the time the set was installed have proved this set to be the best buy for the money, and one which will give the best service over a long period of time. It was decided that it would be necessary for each man in the upper quadrangle to

contribute at least \$1.00 to the cause, in view of the fact that there are only slightly over 500 boys in the three dormitories, and it would be physically impossible to contact every occupant.

A television set in the newly equipped Berry social room, used by the occupants of all three dorms in the upper quadrangle, offers very decided advantages. First of all, TV provides one of the cheapest and most interesting forms of entertainment to be had. For less than the price of two movies, contributors to this cause have at their disposal hour after hour of top-notch listening and looking entertainment. The ping-pong table has been moved from the social room down into the basement of Berry, and every effort has been turned toward making the room into a most attractive and comfortable lounge. It is an ideal place for a fellow and his date to go on Friday, Saturday, or Sunday nights when funds are scarce, or when there's nothing particularly good on at the local movies. Television, built-in entertainment, is an added attraction for making the Berry social room one of the finest places on the campus for social get-togethers of all types.

There is a crying need on the State College campus for reception rooms, lounges, and other places of this sort where parents, and visitors might go when they come to State on various occasions. Television in the Berry social room enhances its value in this respect, and will provide ready entertainment for our visitors during their waits before games, dances, and other occasions.

At the present time television sets in Raleigh will pick up only one station, Greensboro, clearly; however, the time when Raleigh will have its own TV station is not long off. The Raleigh station, when it is completed will be an Ultra-High Frequency transmitter, and this will give TV users a choice of programs. Practically all the TV sets on the market today will require a conversion unit to receive UHF. The set now on demonstration in the Berry Social room will be converted at a nominal cost of \$7.00 to \$15.00 when the time comes.

In three nights of soliciting a grand total of \$365.00 has been collected thus far. This fact in itself is remarkable, that so much money could have been raised in three dormitories in such a short period of time. It shows clearly that a majority of the boys want the set, and it indicates a desire of many to better their own facilities and to work together in an effort for the common good of all.

It is a known fact that you get out of anything only what you put into it. This applies to your college life as well as other activities. Three hundred and sixty five dollars has been collected, but it has been collected by the hard work and concerted efforts of a few, sadly to say, rather than by the large number required to do the job, and who should have turned out to do the job in the beginning. It's been the same old story of everybody wanting a good thing, but no one wanting to take the time or personal responsibility to see it through and get it done. The average student feels that all that he should do in any drive or campaign is to come across with a small monetary contribution. In most cases this is all that is expected of him, and in many cases he will not participate even to this extent. We should all be thankful that not all students are like this, for if they were, the "status quo" would be fixed and immovable—no improvements would be made, no changes would be made, and progress would virtually stop. There still remains, thank goodness, that element of students who are public minded, far-sighted, and broad-minded enough to put forth a little extra work and effort to bring about better things for their fellow classmates even in the face of thoughtless opposition, and realizing that their only reward will be expressions of gross unappreciation, if

any expressions at all are shown. It must be realized that behind any major improvement, or any successful drive lies the hard work and the untiring efforts of a small group of people. These people get no more for their efforts than do the persons for which the drive was conducted, or the persons who will most enjoy the improvements.

The work done in collecting funds for the proposed TV set has been done by the same group of boys almost every night that collections have been made. These boys have not only contributed liberally to the TV drive, but they have sacrificed time which was much more valuable in most cases than the money. To them, the boys in Berry, Bagwell, and Becton owe a word of thanks though it is doubted by this reporter that such a kind of expression will ever fall on the ears of any of them.

Heading the fund-raising drive all the way through have been Hug Leatherman, Fleet Crowell, Charles Farrar, Jack Herther, Giles Willis, R. E. Corbett, Donald Davis, Fred Josephs, J. D. Foster, Ken Armstrong, Roy Congleton, Frank Billings and Jerry Strasser. Each of these men has either worked all three collection nights or has put in at least one solid night's work during the drive. These are the boys who have begged, pleaded, borrowed, and scraped up the grand total of \$365.00. Super salesmen all—they've all talked their heads off in the process.

For the most part, participation in the three dormitories has been excellent, unprecedented by participation in any other drive this year, but this is a project which will take maximum help from everyone. Of the 75 boys contacted in Berry dormitory 74 have readily and generously contributed to the cause giving Berry a participation average of 98.6 per cent. Participation in Becton and Bagwell has been roughly 87 per cent of those contacted. At any rate the drive is still \$100.00 short of the goal. Let's all really put forth our best efforts this next week and put over this highly worthwhile project.

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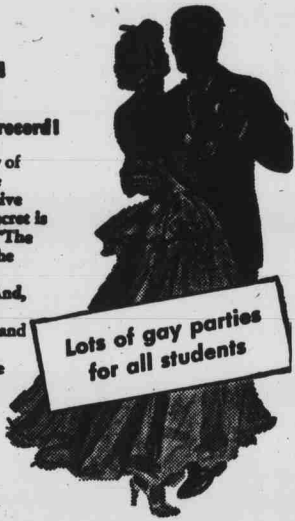
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THE STATE COLLEGE ORCHESTRA, Christian Kutschinski, Conductor, which will present its first concert of the current school year in Pullen Hall Sunday afternoon at 4 o'clock. The public is cordially invited.

### Symphony

The State College Orchestra will present a concert in Pullen Hall Sunday afternoon, November 16, at four o'clock. The orchestra under the direction of Christian D. Kutschinski, is composed of State College students, faculty members, and a number of Raleigh musicians. The concert is sponsored jointly by Mu Beta Psi honorary music fraternity and the Music Committee of the Student Union.

The program will include a toccata and Burgameşca by Frescobaldi, the Symphony No. 53 in D major ("The Imperial") by Haydn, "The Enchanted Castle" Overture by Henry Hadley, "The Lee Rigg" by Richard Franco Goldman, and Prelude to Act III ("Lohengrin") by Wagner.

All students, the faculty and staff and their friends are cordially invited. There is no admission fee.

### Winter

While Old Man Winter is still several freezes and frosts away the recent cold snaps have served to remind Tar Heel motorists that it's time to winterize their cars and trucks.

But the Safety Division of the Department of Motor Vehicles suggests that you go two steps beyond the usual seasonal lubrication changes and the placing of antifreeze in your radiator.

First, you'll want to take stock of your driving habits and adapt them to the additional hazards encountered as temperatures drop.

Second, and equally important, you'll want to inspect the specialized winter driving equipment offered by many accessory manufacturers as an aid to safer cold weather driving.

Where winter motoring is concerned right now is the time to thoroughly check your battery, windshield wipers, heating and defrosting units, and tire chains according to the safety experts.

And have you thought of the advantages of installing directional signals on your car? State law requires that we give turning signals, either by hand or mechanical-electrical devices. And hand signals are perfectly all right for passenger car drivers but they do necessitate rolling down the window and letting in a blast of cold air. If you don't care for that sort of thing, better have directional signals installed. Cold weather is no ing signal law.

### THE OFFICIALS DON'T CARE...

Idaho University claims that it was the officiating that beat them in its 20-14 loss to Oregon State, but the men in the striped shirts have no grounds for complaints. They still get paid.

Officials nowadays have good reason to take grief in good spirits; they pocket \$100 for each game they work. In the East the loot is \$125.

### NO DIZZY DAMES THESE

EDITOR'S NOTE: "Oh, there's nothing in this world like a dame, nothing in the world." ' ' ' so they sang and are still singing in the smash success "South Pacific," from Broadway to London. Now, the opinion as expressed in the song is common knowledge, but is it generally known that the ladies have become organized? Well, hold on to your encyclopedias, because there follows an addition to the store of common knowledge which may rock the campus. Lee Marley tells it:

On the campus of N. C. State is a club with the unique name, Dames of N. C. State College. In March, 1948, through the efforts of Mrs. R. K. Waugh, this society was formed. Assisting Mrs. Waugh were six faculty wives: Mrs. H. A. Stewart, Mrs. D. B. Anderson, Mrs. J. H. Hilton, Mrs. Fred Barkalow, Mrs. D. W. Colvard and Mrs. W. G. Cochran.

The N. C. State Chapter became a member of National Association of University Dames in 1949. The wife of a student enrolled in graduate work is eligible for full membership in the club, the object of which is to promote the social fellowship of its members.

The emblem of the Dames is the wedding ring pierced by an arrow. The ring is used as a band of fidelity. The ring, round and circular, signified a never-ending band, so that the friendship of the members maintains a continuous circle. The arrow is used as a symbol of friendship.

The Dames Club meetings are held the fourth Tuesday of the month at 8 p.m. in the Verville Y. The Dames also sponsors a bridge club, sewing group and arts group for the members.

Plans are underway for the Initiation Service to be held November 18th at the home of Mrs. D. B. Anderson, one of the faculty sponsors. Assisting her will be the other faculty sponsors Mrs. D. W. Colvard, Mrs. Fred Barkalow, Mrs. W. J. Peterson, Mrs. Kenneth Beatty, and Mrs. E. T. York. The Club Officers for this year are: president, Mrs. G. P. Marley, vice-president, Mrs. Frank MacLeod, secretary, Mrs. Sigurd Anderson, and treasurer, Mrs. Lawrence Larkin.

### THE REVELATION...

She was suing for divorce. On the witness stand she was answering the attorney's questions.

"When did you first really come to know your husband?"

"The first time I asked him for money after we were married."

### Textiles Take

A proposed way to potential savings of millions of dollars annually for cotton mills as well as the improvement of fabrics is described in a report released by the School of Textiles at North Carolina State College.

The report, "Neps—and How to Control Them," was published in the Textile World, textile-industry publication of McGraw-Hill Publishing Company.

It contains conclusions based on a three-year study of neps, which are tiny tangles of cotton fibers that appear in yarn and fabrics. The study was sponsored by the U. S. Department of Agriculture, Research and Marketing Administration, and carried out at the college's School of Textiles under the administration of Dean Malcolm E. Campbell.

Authors of the report are J. F. Bogdan, professor of textiles and applied research technologist, and Ivan Y. T. Feng, associate professor, School of Textiles, North Carolina State College.

Stating that control of fibers is the secret of nep control, the report points out specific ways that the number of neps in yarn can be reduced. Scientists in the School of Textiles said perhaps even more important to mills is the by-product conclusion of the research that production of cotton cards can be raised by as much as 300 per cent without lowering yarn quality.

One mill that has already put some of the ideas to use, they said, has increased card production 60 per cent with a resultant annual saving of \$170,000.

The secret of better fiber control, key to fewer neps, and of higher production is largely a matter of adjusting speeds and settings of processing equipment.

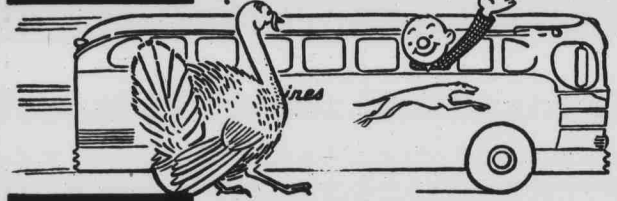
The speeds and settings recommended in the report upset some 150-year old concepts of fiber processing, the authors said.



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## Textiles--animated discussions

The Conference on Electrical Problems for the Textile Industry which was conducted at State College Thursday and Friday, October 6 and 7, was termed an "unqualified success" by Dr. C. G. Brennecke, head of the Electrical Engineering Department.

"The animated discussions, the strong interest displayed, and the large attendance were sufficient evidence of the Conference's success for us to plan a repeat conference next year," Dr. Brennecke said. "We intend to make this an annual event for the engineering and maintenance personnel of the textile industry in Virginia and the Carolinas."

Attendance at the two-day meeting approximated 200 persons,

which topped even optimistic pre-conference estimates.

It was vivid evidence of an observation by one of the major speakers, Marshall E. Lake, who asserted: "The textile industry here in the South has not only grown, but on the whole has set the pace with modern equipment and techniques." Mr. Lake, Manager of the Mill Power Department of the Duke Power Company in Charlotte, said that: "It (the Southern textile industry) is doing an outstanding job in supplying the many varieties of products for an ever expanding economy." Mr. Lake spoke at the Conference luncheon Friday at the Chez Gourmet restaurant on the topic "Power for Textile Industry."

He discussed the greatly increased uses and varied applications of electric power in the textile industry due to construction of new mills, enlargement of existing ones, higher levels of illumination, improved methods of cleaning and material handling, higher speeds and larger packages, and air conditioning.

One point he stressed was that modern mill machinery cannot be expected to operate at peak efficiency and production unless it is operated by a comparable installation in motors and control.

Another speaker Friday was J. H. Bartholomew of Greensboro, Production Engineer with the Monarch Elevator Company. He discussed ways and means of testing elevators and maintaining them in safe operating condition. He also covered a few points on the design of such commercial elevators.

"Electrical Problems and their Remedies" was the topic of another speaker yesterday morning. Robert G. Fowler, Jr. of Cannon Mills substituted for the company's plant engineer, Mr. T. O. Sills, who was unable to make the trip due to illness.

A very animated panel discussion followed, with wide-spread audience participation, on the subject "Electrical Problems We Have Encountered." The session was moderated by Dan McConnell of Cone Mills, member of the AIEE Textile Subcommittee.

## Rolleo Rugged

On November 8, 1952 at Hill Forest, the Forestry Club held their annual Rolleo. Approximately 125 students, faculty, and alumni were present. In the competitive games, the seniors won eight out of sixteen scheduled contests. In the tobacco spitting contest, the seniors led the field, both in accuracy and distance. They also won the rockthrowing, chinning, bucking, tug-of-war, volleyball, and horseshoes contests.

The freshmen took second place honors with rifle shooting and with the casting rod.

Juniors came in third place by taking second place in horseshoes, chinning, tobacco spitting, fire building, and diameter estimations.

Last but not least, the sophomores took fourth place honors by winning in fire building, archery, and distance estimation.

## Stern, Dr.

Dr. Curt Stern, national Sigma Xi lecturer for the current year, addressed the State College chapter of Sigma Xi on Monday night, November 10.

Speaking in Withers Hall on the college campus at 8 p.m., Dr. Stern discussed "The Gene in Development." He is concerned primarily with the gene's role in cell differentiation in the development of a new organism from a fertilized egg.

He was introduced by Dr. Stanley G. Stephens, Professor of Genetics at State College and a personal friend. Presiding over the meeting was Dr. John W. Cell, Professor of Mathematics and president of the State College chapter of Sigma Xi. The college chapter boasts over 100 members of the organization, which is a national honorary society for the encouragement and recognition of scientific research.

Dr. Stern is a recognized authority on genetics. He is Professor of Zoology at the University of California, where he has undertaken his recent experimental work. He is also a member of the National Academy, of the Advisory Committee for Biology and Medicine of the Atomic Energy Commission, and has been President of the Genetics Society and editor of *Genetics*.

Dr. Stern's lectures will trace some of the famous attempts to solve the problem of the part genes play in the differentiation of cells. In addition he discussed his own studies on the factors determining the pattern of bristle organs on the body surface of the vinegar fly *Drosophila*. It is believed that the answer to the question why the bristles on a fly develop as they do may go far in telling us why a whole plant, a whole animal or whole human being develops as it does.

## Babcock Prexy

Professor W. F. Babcock of the Civil Engineering Department at State College has been elected president of Chi Epsilon, the national civil engineering honor fraternity, for the academic years 1952-54.

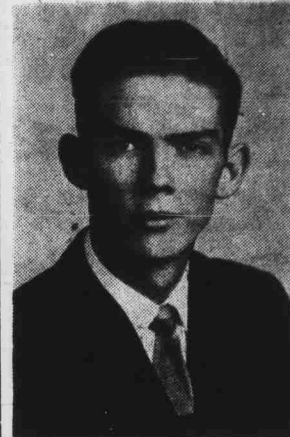
The fraternity is composed of 45 student chapters and six alumni chapters at engineering centers throughout the country. Its purpose is to provide recognition to outstanding civil engineering talent, and to promote professional integrity and development.

Professor Babcock has been a member of the organization since his own college days, and has been faculty adviser to the State College student chapter since its establishment in 1949.

He has also served as national vice-president for the past two years. His formal installation as president took place at a national convocation of the fraternity in Chicago recently.

He has been a member of the State College faculty since 1940. A specialist in the field of transportation engineering, Professor Babcock is widely known in the State for his consulting activities with the North Carolina League of Municipalities.

## Max Baldwin



Max E. Baldwin of Ramseur has been awarded the Ramseur Furniture Company Scholarship in the School of Engineering for the school year 1952-53.

Baldwin, a sophomore in furniture manufacturing and management, was the recipient of a similar award last year. He was graduated from Ramseur High School in June, 1951.

The scholarship is administered by the Furniture Foundation, Inc., of which Ramseur Furniture Company is a member. Under the scholarship's provisions, the recipient must be a graduate of Ramseur High School or a resident of that vicinity, and must enter the furniture manufacturing and management curriculum at State College.

Baldwin is the original winner of the award, which was established in 1951. He has spent his past summer gaining practical experience by working at the Ramseur Furniture Company. His father is the foreman of the company's shipping room.

He is a member of the State College Furniture Club, the Forest Products Society, and the Bagwell Dormitory Club.

## ROUGH ROAD

In this "Roughest Profession, the college presidency," Dr. William S. Carlson, president of the State University of New York, deplors the further advance of politicians and military men, by "short-circuiting educational leadership in favor of the magic managerial touch."

Dr. Carlson quotes a California educator as saying that the "infiltration endangers the future of American higher education with the University ideal sold on the auction block of success and all the sinister pressures of the outside world corrupting academic standards."

Criticizing the methods some candidates use to seek a top college post, he took as an example "a moderately small college" with a job open "that pays as well as a Congressman's." But while a Congressman has to knock off only one or two opponents to get his job, "the man who came up with the presidency had to survive the winnowing from a whole basket of chaff." Dr. Carlson concludes that it is "the most competitive employment field in the country."

## A Collection Of Classics

— By Stan Kenton

Tampico

Machito

Minor Riff

Unison Riff

Southern Scandal

Artistry In Boogie

And Her Tears Flowed Like Wine

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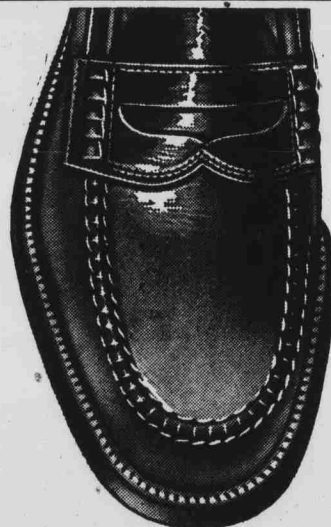
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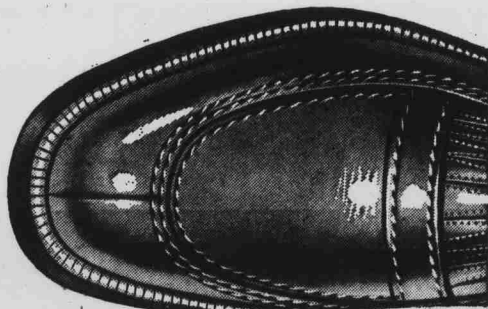
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# Wolves Clash With Panthers

## the Technician SPORTS

### Views and Previews

JERRY ARMSTRONG, Sports Editor

#### State Meet was "Acid Test"

By taking the Intercollegiate State Meet with a low score of 17 and placing four men in a tie for first place I think the Pack has passed the "Acid Test" and should retain their Southern Conference Cross-Country title at Richmond Monday.

Last year the Pack won the conference meet title with the aid of runners, Clyde Garrison, who won first place, "Buz" Sawyer, Joe Shockley, Jr., Darrel Winslow, and Dave Miller. All five of these boys have looked terrific in every meet this year. Garrison and Sawyer have finished in a tie for first place in every meet this year. This is one of the main factors why State has taken four straight meets without suffering a defeat.

#### Rugged Opposition Expected for Meet

Maryland's Terrapins offer the greatest challenge to Fitzgibbon's Pack, but Richmond and V.M.I. are not to be underestimated.

This year the Terrapins have one of the finest teams in their history supported by five outstanding runners, Tibbets, Goldstein, Thornton, Good, and Swafford. These runners were only 43 seconds apart from the first to the fifth man in their meet with Duke last week as they bettered State's time on the Duke course by 14 seconds with a time of 20:25 to State's 20:33.

Richmond gave State a bitter fight in their duel with the wolves this year, but great running by Sawyer, Garrison, and Shockley saved the meet by the highest score this year for State, 23 to 35.

V.M.I. also has a fine club this year as they proved in taking the "Big Six" championship behind some great runners.

#### Around 85 Runners to Start

The meet is open to any club in the conference but only about ten or eleven teams generally enter because of the fact that good cross-country runners aren't just made overnight. It takes time and good coaching to produce a winning cross-country team and I think this is another fact why we have such a great team. We have one of the finest coaches in the South in the field of track in Coach Tom Fitzgibbons. Before he came here he was the assistant coach at Wisconsin and coached such great runners as Don Gehraman, who is today one of the greatest runners in the nation. If you want a winning record, see if this isn't a great one. In his three years of coaching the track team he has a record of 21 wins, 1 tie, and 1 defeat in cross-country dual meets. I think that ranks up high in the coaching records at State for any sport.

The teams entering in the race are Maryland, Washington and Lee, West Virginia, V.P.I., V.M.I., University of Richmond, Duke University, Davidson, William and Mary, University of North Carolina, and North Carolina State.

The members of the team from State are: Clyde Garrison, "Buz" Sawyer, Joe Shockley, Jr., Dave Miller, Darrell Winslow, Einer Aase, Dave Spangler, and Charlie Helms.

#### Around the Conference

Big-Four members have had their troubles lately. Week before last Wake Forest was the only family member to win. Saturday State did the unusual and saved the Big-Four from complete disgrace in being the only winner. Only 12 games have been won in 27 starts by Big-Four teams this season. That isn't bad considering the schedules but it isn't good considering the Big-Four standards. But, never has such national rated teams been faced by the family.

Carolina does little to aid its back-breaking schedule. Two of the

weaker foes of this season, South Carolina and Miami, are being replaced by Oklahoma and Maryland. I don't know what the Tar Heels are trying to prove but they receive my vote as finally reaching the toughest schedule in the country. Maybe they'll wise up to why victories are near impossible. I can't see that Snavelly is to blame for the team not winning unless he's responsible for the schedule.

In games tomorrow Pitt should move to a three touchdown win over State. I'll pick the Pack loss to be 13-34. . . Duke will snap back (Continued on Page 14)

## Dormitory Intramurals

By JULIAN LANIER

### FOOTBALL STANDINGS

Section One	Won	Lost
Vetville	3	0
Berry-Watauga	3	1
Syme No. 2	2	1
Bagwell No. 2	0	3
Turlington No. 1	0	3
Section Two		
Becton No. 1	4	0
Syme No. 1	1	2
Owen No. 2	1	2
Welch-Gold	1	2
Alexander	1	2
Section Three		
Bagwell No. 1	3	0
Becton No. 2	2	1
Owen No. 1	2	1
Tucker	1	2
Turlington No. 2	0	4

Bagwell No. 1 continued a three game winning streak on Monday, November 3, by rolling over Turlington No. 2, 9 to 0. The first half was fought on even terms, but the Bagwell team got in high gear in the second half when Roy Thomas blocked a kick which was trapped in the end zone for two points. Later in the half, Ed Hill passed to Craig Barnhardt who went all the way for Bagwell's only TD. Another pass from Hill to Barnhardt counted for the extra point.

A pass interception by Charlie Harrell, who ran it all the way back for the touchdown, highlighted a Becton-Alexander game which Becton won 20 to 0. Joe Bray and Ray Hooke fell on the ball in the end zone after Harrell had blocked it, and this brought about the second score. The third touchdown was made on a 30 yard run by Robinson. Fine blocking by George Rose and Gene Corriher made it possible for "Sug" Robinson to get off some highly accurate passes.

Berry-Watauga racked up the highest score of the season when they defeated Turlington No. 1, 33 to 6. Scoring three touchdowns in the first four plays, the Berry boys coasted to victory, although Turlington tried hard to get back into the game. Bill Sigmon and Jerry Strassler scored two TD's apiece for the winners, and Ed Horbelt caught a pass to score the other one. Richards, Moore, and Hartis looked good for Berry in a game in which the winners could do no wrong.

Syme No. 2 defeated Bagwell No. 2 on Wednesday, November 5, 13 to 0. Tommy Sledge blocked a kick to set up a TD in the first quarter, and Sonny Santoli ran it through for the score. The second touchdown for Syme came in the second quarter when Santoli intercepted a pass, ran for 45 yards and the score. McCoy passed to Chambers for the extra point and the final tally for the day. Sledge, Wolf, and

## Harriers Take State Meet

Coach Tom Fitzgibbons' State cross country team tuned up for next week's Southern Conference meet at Richmond with an impressive win over Duke, Carolina, and Davidson yesterday in the fourth annual State Cross Country Championships over the State course.

Four State harriers, Capt. Clyde Garrison, William (Buzz) Sawyer, Joe Shockley, and David Miller joined hands to cross the finish line in a tie for top honors. Sweeping the four first spots gave State a low score of 17 points, Carolina trailed in second with 50, Duke was third with 66, and Davidson rounded out the field with 80.

The State team covered the rain-soaked four-mile course in 22 minutes, 28 seconds, just four seconds off their record time turned in against Davidson back on Oct. 4. Garrison, Sawyer, and Shockley forged into an early lead and were never headed. Miller had to make a fast closing finish to catch his teammates for a first-place tie.

Carolina gave the Wolfpack its biggest challenge, putting Bob Webb and Morris Osborne up in fifth and sixth spots, respectively, to keep State from making a clean sweep of the top five scorers. State's fifth man, Darrell Winslow, trailed Webb and Osborne in seventh spot.

The win for the Wolfpack was their fourth straight in the State meet and rounded out a three-year record of 25 wins, one loss and one tie for the squad of Coach Tom Fitzgibbon since he took over the coaching reins on the campus in 1949.

Athletic Director Roy Clogston of State presented the team trophy to Captain Clyde Garrison of the Wolfpack following the meet. The top 10 finishers also received individual trophies.

#### Summary (top 20 finishers):

- Garrison, Shockley, Sawyer, Miller (NCS) 22:28.
- Webb, Osborne (UNC) 22:41.
- Winslow (NCS) 22:50.
- Tate (Duke) 22:57.
- Marx (UNC) 23:06.
- Shipley (Davidson) 23:06.
- Higgins (UNC) 23:20.
- Gooding (Davidson) 23:20.
- Morton (Duke) 23:25.
- Dixon 23:35.
- Raimondo (Duke) 23:36.
- Marshall (Duke) 23:37.
- Henry (Davidson) 23:45.
- Spangler (NCS) 23:47.
- Wright (UNC) 23:55.
- Turner (Davidson) 23:55.

Gross looked good in the line for Syme while Santoli, who has scored all of Syme's touchdowns, starred in the backfield. A smaller Bagwell team did very well against the heavier boys from Syme, but were unable to score throughout the game. Roy Fagen, Frank Jones, Tommy Andrews, and Joe Pearson all played a hard game for the losers from Bagwell.

## Pitt Favored By 28 Points

Facing the task of meeting one of the nation's best teams tomorrow, Pittsburgh's Panthers, Coach Horace Hendrickson and his N. C. State Wolfpack have adopted a policy of light workouts in hopes of fielding a squad at peak strength.

Injuries have cut State's potency this season, but last week's 25-14 win over Washington and Lee was achieved without any additions to the Wolfpack casualty list. Hendrickson, thus, has cut the rough work to only a bare minimum in practice sessions.

Pittsburgh will be rated a heavy favorite over the State squad, but Wolfpack players have gone about their task of preparing for the Panthers with an optimistic attitude. Their morale is on the upgrade after the upset win over Washington and Lee and State grid-ers figure they can make a good showing against Pitt.

Certain for major roles against the Panthers are Fullback Don Langston and Halfback Alex Webster. Together this pair added up 256 yards rushing last week against Washington and Lee as each averaged 6-yards per try in 43 carries. Webster, who led the Southern Conference in scoring last year, came through with his finest game, racking up 138 yards on 23 attempts, while Langston blasted his way for 118 yards on 20 carries.

Key men in the Wolfpack forward wall will be State's big freshmen tackles, Henry Spivey and C. M. Price. Price, a 230-pounder from Prospect, Va., is improving with every game and Spivey, a 245-pound, six-foot, five giant from Weldon, N. C., returned to action against Washington and Lee after a two weeks' absence with injuries and led the State defensive unit.

The Panthers, who operate from both the T-formation and single-wing, have a world of material. Their great record this year includes triumphs over Iowa, Notre Dame, Army, Indiana and Ohio State. Only two losses have been suffered at the hands of Oklahoma and West Virginia. Only State and Penn State remain in their path and the best season for the Panthers since 1949.

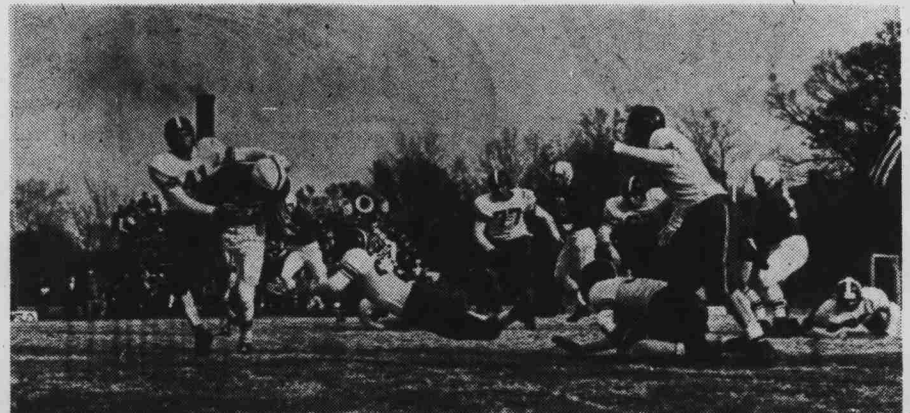
Pitt's stars are numerous. On the offense Quarterback Rudy Mattiola runs the basic T-formation attack. He's a top passer and runner. At the halfbacks are Bill Reynolds and Bill Hoffman who're about the trickiest runners in more than a decade at Pitt. At fullback Bobby Epps, a 195-pound Negro ace, is about as tough as they come.

All in all it looks like a rough afternoon for State's Wolfpack.

#### Offensive starters:

N. C. State	Pos.	Pittsburgh
Kosilla	LE	Adams
Price	LT	Gatz
Bagonis	LG	DeLuz
Paroli	C	Gembarkosky

(Continued on Page 14)



State's hard crashing fullback Don Langston, is shown here picking up some of his yardage which amounted to 118 yards in 20 attempts for an average of six yards per try—second only to Webster in total yards gained. Langston and Webster accounted for a total of 256 yards.

# Langston and Webster Get 256 of 296 Yards

By ED STOREY

Great offensive performances by Halfback Alex Webster and Fullback Don Langston and a brilliant team defensive effort were credited by Coach Horace Hendrickson for State's surprising 25-14 upset win over Washington and Lee's Generals Saturday at Lexington, Va.

Langston and Webster together accounted for 256 of the 296 yards State marked up rushing. Webster led the way with 138 yards on 21 carries for a 6.6 average per try.

Langston battered the Generals' line for 118 yards in 20 tries for an even six-yard average.

"Our entire team deserves credit for the victory," Hendrickson asserted yesterday. "The boys were steamed up before the game and I thought it was our best effort of the season. I was particularly proud of our substitutes, all of whom turned in good performances. The defensive unit was on its toes and the offensive line blocked well."

The State coach had particular

praise for five defensive players who stopped the Generals' attack cold on more than one occasion. Hendrickson named Tackles Henry Spivey and C. M. Price and Guard Jim Hillman in the center of the Wolfpack forward wall and Ends Bernie Allman and David Butler as defensive standouts.

"Allman and Butler kept the pressure on Washington and Lee's quarterback all afternoon," Hendrickson said, "and Spivey, Price and Hillman rushed well in the middle."

Hendrickson praised his entire offensive line for its crips blocking.

"Mazgaj and Bagonis played their best offensive game at the guards and Langston and Webster ran the holes well. Our blocking in

general showed a lot of improvement and everyone of the boys we used at tackle including Percy Riden, J. C. Britt, Tony Leone, and Ben Kapp aided our cause tremendously."

State's defensive backfield also came in for some bouquets from Hendrickson.

"Our defensive backs, Ted Kilyk, Henry Brown, Cris Frauehoffer and Colbert Micklem played good alert football. They intercepted three Washington and Lee passes and broke up 12 other attempts. Except for those two long ones caught by Washington and Lee's fine end, Bob Thomas, they never hurt us with their passing game," Hendrickson commented.

The game was a spirited one from start to finish and both teams tackled hard. Numerous roughness penalties were inflicted on each team. Washington and Lee had two players ejected from the contest for slugging and at least three fist fights broke out during the three-hour long struggle.

One brawl, which started on the Washington and Lee sideline, was participated in by students, players and other spectators. Washington and Lee Coach Carl Wise drew a 15-yard penalty for protesting one decision on the field of play.

### Scout Praised Pack

State's offensive rejuvenation drew praise from all sides. A University of Pittsburgh scout, who watched the contest, commented in the press box that State was 75 per cent improved over their play against Florida State. State tangles with the Panthers of Coach Red Dawson Saturday in Pitt Stadium in Pittsburgh.

The Wolfpack came through the contest in pretty good physical condition. Halfback Alex Webster, who played his best game of the season, suffered a slight shoulder injury in the final moments of the scrap, but is expected to be ready to play against Pitt. Tackles J. C. Britt, Ben Kapp and Percy Riden all left the game with minor hurts, but none are rated serious.

The win over Washington and Lee, coupled with State's junior varsity 6-0 triumph over Carolina here on Friday, gave Wolfpack supporters their finest football week-end of the season.

### Review of Game

The action started when Washington and Lee's safety man returned Alex Webster's punt from their own 20 to the 40 and then opened a 60-yard ground offense led by Halfbacks Abrams and Carl Belt that finally paid off on a fourth down pitch from Quarterback Lindley to End Bob Scott. Guard Bob Lafferty converted and Washington and Lee led, 7-0. State bounced right back to go 70 yards. Langston

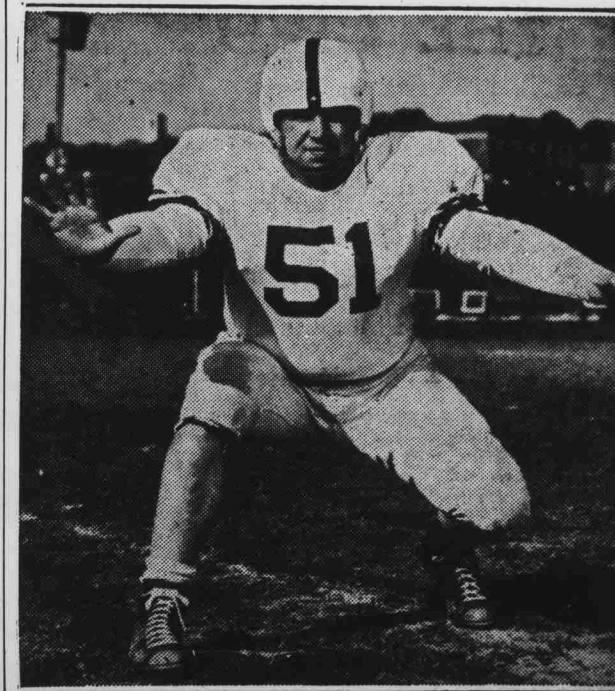
# Defensive Standout



END BERNIE ALLMAN

and Webster were at the helm on a fast moving Wolfpack ground offense that almost stalled on the Generals' 5, but a fourth-down quarterback sneak by little Carl Wyles finally netted the score. Langston had seven carries in the drive for 49 yards. Webster's 13-yard jaunt around end put the ball on the 5. Captain Ray Barkouskie failed to convert and Washington and Lee led, 7-6.

Midway in the second period State got rolling from their own 35 and went 65 yards to score. A 30-yard punt return by Halfback John Zubaty sent the Wolfpack enroute and with Langston and Webster piling up yardage from scrimmage they made the grade on fourth down when Langston burst through the middle for the score from eight yards out. Barkouskie again failed to convert, but State took a 12-7 lead. Just three minutes later State scored again. The Generals were stymied at their own 5 by great defensive end play by Allman and Quarterback Joe Lindley was forced to kick. His boot was a high wobbly one, which Safetyman Kilyk pulled in at his own 40. The freshman speedster fought his way to midfield and finally picked up the State blocking screen. With State's red shirted warriors mowing down General tacklers, the Phoenixville, Pa., star crossed the 40 yard line and outdistanced two pursuers to cross the goal standing.



TACKLE JIM HILLMAN

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**VIEWS AND PREVIEWS—**

(Continued from Page 12)

into the win column tomorrow when it battles Wake Forest. It has been five long years since the Devils have tasted victory over the Deacs. Although the Deacons are pointing for this game and will put up a real fight for two or three periods I'll pick the Devils by three touchdowns . . . Carolina will win tomorrow for almost certain. I'll pick South Carolina in a close contest over the Tar Heels. UNC might develop a dangerous passing attack and upset the Gamecocks but past performances give a South Carolina win by a close seven points. . . Other games find GW over Davidson, Maryland over Mississippi, VMI over The Citadel, Virginia over Richmond, Furman over Florida State, West Virginia over VPI, Kentucky over Clemson and Washington and Lee over Cincinnati.

**PITT GAME**

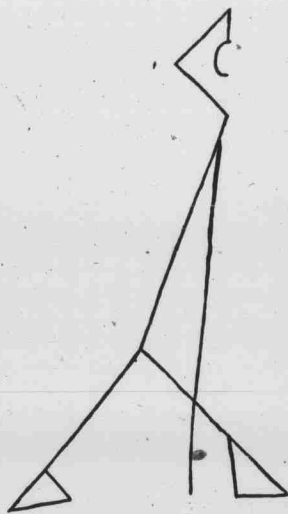
(Continued from Page 12)

Mazgaj	RG	Romantino
Spivey	RT	Kraemer
Lodge	RE	Deitrick
West	QB	Mattiola
Webster	LHB	Hoffman
Tacker	RHB	Reynolds
Langston	FB	Epps

**Cage Schedule**

Date	Opponent	Place
Nov. 27	Fresh. vs. Var.	Col.
Dec. 2	Furman	Here
Dec. 4	Wash. & Lee	Here
Dec. 6	Davidson	Here
Dec. 9	Wake Forest	There
Dec. 11	Rhode Island	Here
Dec. 13	East. Kentucky	Here
Dec. 18	Geo. Wash.	There
Dec. 20	Texas Tech	Here
Dec. 23	St. John's	There
Dec. 27	Dartmouth	Here
Dec. 29-31	Dixie Clas. Tour.	Here
Jan. 3	Cincinnati	There
Jan. 6	Davidson	There
Jan. 10	Duke	There
Jan. 13	Wil. & Mary	There
Jan. 17	Geo. Wash.	Here
Jan. 24	North Carolina	Here
Jan. 28	Villanova	There
Jan. 31	Wake Forest	Here
Feb. 4	South Carolina	There
Feb. 7	Wil. & Mary	Here
Feb. 11	Villanova	Here
Feb. 14	Duke	Here
Feb. 17	Wash. & Lee	There
Feb. 21	North Carolina	There
Mar. 5-6-7	Fordham	Here
Feb. 24	Cincinnati	Here
Feb. 28	Sou. Con. Tour.	Here
Mar 13-14	NCAA Reg. Play	Here

**Tired Student**



**FREEDOM JILTED**

College editors across the nation have been having trouble expressing themselves, according to an article by Tom Tomizawa in The Masthead.

The trouble is, says Tomizawa, that whenever they deal with a controversial topic, somebody—administration, student government or alumni—is likely to stifle them.

He cites many examples, a few of which we have space to print: "Miss Sara Woods, editor of the University of Oklahoma Daily . . . this spring went corruption-hunting in the student governing body, and called its elections 'rotten, stinking and filthy.'"

"The student senate attempted to stifle me when I was writing nasty editorials about it," she recalls now, somewhat with relish. "My life was even threatened."

"When six students of a small eastern college recently were reprimanded for drinking, the editor of the school paper took advantage of the opportunity for some barbed comments. A lot the college has to holler about student drinking, she said in an editorial blast, when the school owns shares in a tavern and when it goes around soliciting funds from local pubs.

"The editor found herself on the carpet—first in the office of the centennial campaign fund chairman, then in the president's office. She was warned to keep under control the 'impetuosity of her youth.'"

The article points out that most college newspapers are very loyal to their school administrations and often bend backwards to support them.

"But," it continues, "it is the school editor's occasional flights into criticism of school authorities which get him into hot water. That is when charges of student editor irresponsibility are made. And that is what the campus Greeley despairs of. He wants to be free to criticize, as well as to puff, his school."

Tomizawa stresses the fear most colleges have of "bad publicity" as a result of campaigns by student papers. "Schools are sensitive to pressures of public opinion . . ."

The editor attempts to refute this with the claim that "it is the responsibility of the school administrators not to get into embarrassing situations."

Probably never before, says the article, have so many college editors been so sharply aware of the problem of college press freedom. Campus editors from all parts of the country are writing editorials expressing their abhorrence of controls.

The Cornell Daily Sun may be considered fairly typical of the college daily viewpoint. It declares: "Any newspaper, unless it is founded on a core of independence, might just as well fill its columns with comics or boilerplates as to call itself a real organ of truth."

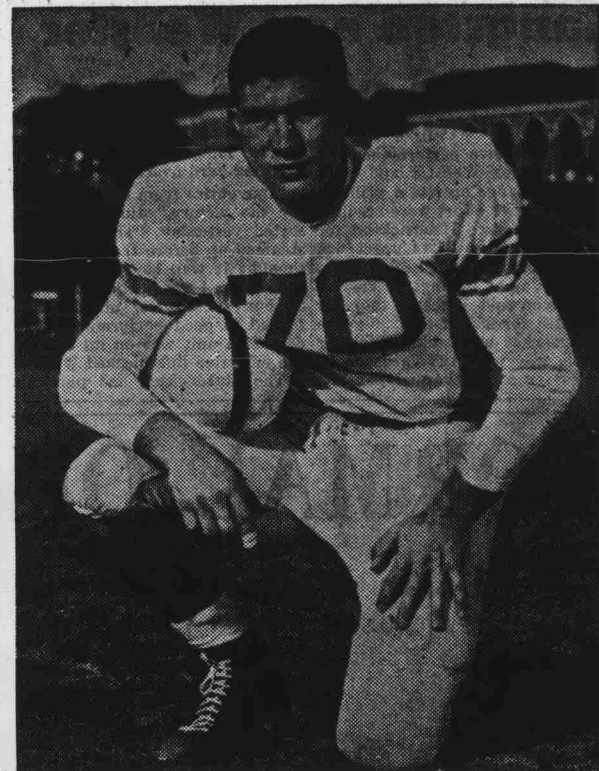
**Dean's List Announced**

North Carolina State College's 1952-53 "Dean's List," composed of a group of juniors and seniors who have made "B" averages in their studies, includes 168 students.

The group of top-level scholars is composed of 126 North Carolinians, 32 students from other states, and 10 foreign students. North Carolinians constitute 75 per cent of the students receiving the coveted honor.

A breakdown of the foreign students included in the list shows four from Canada and one each from China, Switzerland, Norway, Hawaii, Colombia, and England.

The names of students who have earned a scholastic average of 85 per cent or better in all of their studies appear on the "Dean's List."



TACKLE JAMES C. BRITT

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# Hard, Fast, and Educational

The fast-talking, hard-working dean of the School of Education at North Carolina State College believes in taking the college to the people.

In the past two years, Dr. J. Bryant Kirkland and his staff have set up classes in 23 off-campus educational centers, where a total of 637 persons have been trained.

Add to that the number enrolled for extension classes in education on the State College campus, and the total jumps to 767 persons from 75 counties.

Dean Kirkland sums up the extension teaching program this way:

"We have simply extended the campus of North Carolina State College from its home county of Wake to 74 other counties whose people have been able to enjoy the benefits of college training in their leisure hours."

Most of the off-campus classes have been arranged for graduates of the State College School of Education who are now engaged in work as public school teachers.

In addition, courses have been held for professional workers in general education, personnel work, industry, and recreation.

Subjects of the courses offered include introductory psychology, industrial psychology, interviewing and counseling, personality and adjustment, applied psychology, farm mechanics, special problems in teaching vocation agriculture, and the organization and administration of recreational activities.

A total of 130 public school teachers enrolled for classes held on the State College campus on Saturday mornings and the late afternoons. This group, including teachers, principals, and supervisors, live and work in commuting distance of Raleigh.

Among the courses which they studied were "Improvement of Reading Ability," "Teaching Farm Mechanics," and "Trends in Teaching Vocational Agriculture."

All of the courses mentioned here have been taken for college credit toward academic degrees or for the renewal of teaching certificates. In addition to this type of instruction, the School of Education also has several short courses, conferences, and institutes—all in the field of adult education.

In the latter category was a course in "Industrial Arts for Adults," which met one night per week for 15 weeks and attracted 284 in the last two years. This course was so popular that the teachers had to divide the students into three sections.

Short intensive workshops were conducted by the Department of Industrial Education for 97 trade teachers and diversified coordinators and for 81 trainers of practical and professional nurses.

Approximately 200 North Carolina industrialists, ophthalmologists, optometrists, educators, and psychologists attended sessions of an Occupational Vision Congress conducted by the

Department of Psychology in the falls of 1951 and 1952. These congresses were devoted to problems of vision in industry and schools and the removal of vision problems as a means toward improvement of occupational efficiency and safety.

Among other accomplishments of the Department of Psychology in the non-credit training field have been an Industrial Personnel Testing Institute for 27 industrial representatives and the training of 100 State Highway Safety Division license examiners in the use of the Ortho-Rater.

Working in cooperation with the Southeastern Association of State Park Directors, the Department of Industrial and Rural Recreation in 1949 initiated a two-week short course on State Park Administration, Operation, and Maintenance. Similar courses were conducted in 1950 and 1951, with 56 park officials from 10 Southern states attending.

The department held a three-day workshop for industrial recreation directors last winter.

About 150 superintendents and teachers attended conferences on current problems in the administration of industrial arts programs in the public schools during the past two years. These conferences were sponsored by the Department of Industrial Arts.

Offering close cooperation with the State's public schools, the Departments of Agricultural Education, Industrial Arts, and Industrial Education have averaged 92 supervisory visits annually to beginning teachers who have been given assistance with their instructional programs.

North Carolina industries have called upon the Department of Psychology in the last two years for 40 personnel evaluations. The department, Dean Kirkland said, anticipates that "considerable work in psychological testing, morale, improvement of attitudes, training, and psychological research will be done in the future."

Conferences on supervision were held last April by the Department of Industrial Education for 76 supervisors of the North Carolina Rural Electrification Authority at Kinston and Lenoir.

This summer the Departments of Agricultural Education and Agricultural Engineering, in cooperation with North Carolina power companies and the Division of Vocational Agriculture of the State Department of Public Instruction, have conducted rural electrification workshops in 21 centers throughout the State.

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**Metallurgy Service**

Let's suppose you're a businessman—a manufacturer. And you have trouble with your machinery. What can you do about it?

Well, you might call on the metallurgy service in the School of Engineering. Newly developed, this service is available to all State industries with metallurgical problems.

Metallurgy is a specialized branch of engineering concerned with the manufacture, treatment, and properties of metals. The work done at the college's School of Engineering in this field is of two sorts—trouble-shooting and developmental.

Trouble-shooting involves a sort of post-mortem examination where trouble has occurred. It constitutes an analysis of causes for the difficulty, and suggestions for alleviating the trouble.

Developmental work is of a less precise nature. It deals with attempts to improve the quality of a metal product, or to change its composition and properties to better suit the requirements of a particular situation or manufacturer.

In charge of the college's metallurgical facilities is Dr. B. Floyd Brown, a specialist in the field. Dr. Brown has studied at Carnegie Tech and worked in the Metals Research Laboratory there and at M. I. T. He joined the N. C. State

staff a year ago, to take charge of the research programs in metallurgy.

Serves State Industries  
Trouble-shooting has constituted the bulk of the work Dr. Brown has done in this State, thus far. He has helped members of the trucking and textile industries, with a variety of problems.

The type of work he does is exemplified in an account of assistance he rendered to a steel foundry. The foundry manufactured large gears for power shovels, and the gear teeth did not stand up in service. The resulting damage due to breakage of the gear teeth, was serious and expensive.

The question arose as to whether the weakness was a result of the steel-making process, the heat treatment process, the case hardening process, or some other factor.

**NEW CERAMIC DEVELOP.**  
(Continued from Page 8)

found that most of the difficulties could be reduced or eliminated by the addition of small amounts of pre-fired clay.

Another ceramic research project of developmental nature at the School of Engineering is being sponsored by the U. S. Navy. This is an investigation of slagging conditions, and of means to predetermine slagging behavior of various materials. It will involve evaluation of many heat resistant materials produced throughout the U. S., in relation to their suitability for use in naval boilers.

The importance of such a project can be realized only when one considers that the efficiency and effectiveness of all naval vessels is dependent, to a large extent, upon the operation of their high pressure boilers down below decks.

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**HILTON—**

(Continued from Page 1)

are being considered for the chancellorship at State College.

"While I am quite confident that monetary considerations were not an important factor in Dean Hilton's decision, I feel constrained to point out that the compensation in the post to which Dean Hilton is being called exceeds the compensation, present or proposed, of any official or staff member of the Consolidated University of North Carolina."

In announcing Dean Hilton's decision to leave North Carolina State College, Chancellor Harrelson stated:

"All of North Carolina learns with deep regret that Dr. J. H. Hilton, Dean of Agriculture at the State College, has accepted the position of President of Iowa State College and will, therefore, leave North Carolina.

"Dean Hilton's going is a loss to the State in general and a much greater loss in particular to all agricultural activities of North Carolina. During his residence here, he has exhibited the greatest of leadership in the field of agriculture and agricultural research. The agricultural staffs here now are rated very high in the nation. Under Dr. Hilton's guidance, the Agricultural Experiment Station, the School of Agriculture and the Cooperative Agricultural Extension Service have made great progress in a short period of time. We will miss him."

Expressing his regret in leaving North Carolina, Dr. Hilton issued the following statement:

"I will leave North Carolina with profound regret. It is one of the truly great states in this country—wonderful people and great potential resources. Without doubt this state and the southeastern region will lead the way in progress during the next decade. I am happy

to have played even a small part in the beginning of this progressive movement.

"I have nothing but the highest praise for Chancellor J. W. Harrelson of State College and President Gordon Gray of the Consolidated University of North Carolina for their encouragement, wise counsel, and steadfast support. I am also deeply indebted to the staff in the School of Agriculture and to the people of the State for the wonderful support they have given to our various agricultural programs and to me personally.

"I have accepted the offer to become president of Iowa State College because it is my alma mater, and because it offers such a grand opportunity professionally.

"Whatever the future may hold for me and my family, I can truthfully say that the past eight years in North Carolina have been the happiest years of our lives."

Born in Hickory, N. C., on No-

vember 20, 1899, Dr. Hilton spent his freshman year as a student at North Carolina State College, earned his B.S. degree from Iowa State in 1923, received his M.S. degree from the University of Wisconsin in 1937, and was awarded his Doctor of Science degree by Purdue University in 1945.

He was married in 1923 to the former Lois Baker of Nevada, Iowa, and they have three children—Mrs. C. M. (Elinor) Thomas of Park Forest, Ill.; Mrs. R. J. (Helen) Bryant of Gastonia; and James Gardner Hilton, a junior in the School of Agriculture at State College.

Dr. Hilton has a wide experience as a scientist, college professor, and educational administrator. He was Instructor in Animal Husbandry, Iowa State College, 1923; County Agricultural Agent, Greene County, Iowa, 1924-26; Dairy Extension Service, Purdue University, 1926-27; Assistant Professor in Dairy

Husbandry, Purdue University, 1927-36; Associate Professor in Dairy Husbandry, Purdue University, 1936-39; Professor in Dairy Husbandry in charge of Dairy Production Teaching and Research, Purdue University, 1939-45; and Assistant Chief, Dairy Department, Purdue University, 1940-45.

He was appointed head of the Department of Animal Industry at North Carolina State College in 1945 and served in this position for three years during which the department gained national recognition for its progress in resident teaching, research, and extension. Under Dr. Hilton's leadership, the department strengthened its staff, expanded its physical facilities, extended the scope of its research investigations, and its training program attracted, in larger numbers, students from other sections of the nation.

Since 1948, Dr. Hilton has been North Carolina State College's dean of agriculture. In this capacity, he has been responsible for the administration of the Agricultural Experiment Station, the Agricultural Extension Service which numbers among its employees the county farm agents and home demonstration agents in the State's 100 counties, and the resident instruction in agriculture at North Carolina State College.

Under Dr. Hilton's administration as dean of agriculture, the School of Agriculture and its related divisions have experienced the greatest physical expansion in the 63-year-history of the institution. Approximately \$4,000,000 have been spent for new equipment and for the erection of a number of buildings, including the Agronomy Building, the Botany-Zoology Building, the Forestry-Horticulture Building, and the Poultry Science Building.

Corresponding progress has been made in the research, extension, and resident teaching work of the School of Agriculture. The faculty and staff have also been strengthened, and many have attained international reputations with their achievements.

Widely noted for his original research achievements, Dr. Hilton is the author of 30 scientific publications. His major field of research has been devoted to the relationship of Vitamin A in feeds to physiological performance of dairy animals and to the Vitamin A content of dairy products.

Scores of honors have been extended to Dr. Hilton for his research, teaching, and administrative accomplishments. The North Carolina State Grange awarded him its "Certificate for Distinguished Service" during its meeting at State College in October, 1952, and The Progressive Farmer selected him as its "Man of the Year" in 1949. He was named "Tar Heel of the Week" by The News and Observer on Sunday, November 25, 1951, and he was listed in Who's Who in America in 1952.

He was chairman of the production section of the American Dairy Science Association, 1932-33; was a member of the association's board of directors, 1947-51; has been a trustee of the National Dairy Cattle Breeding Research Foundation since 1949; was chairman of the Southern Agricultural Experiment Station Directors' Association, 1948-49; was chairman of the Governor's Committee on Agricultural Program, 1948; was chairman of the North Carolina Board of Farm Organizations and Agencies, 1951; and was named chairman of the Feed Survey Committee, American Feed Manufacturers Association, in 1952.

In addition, he is a member of the American Society of Animal Production, the North Carolina Society of Farm Managers and Rural Appraisers, the Society of the Sigma Xi, Alpha Zeta, Phi Kappa Phi, and the Watauga Club. He is also a trustee of the National Dairy Shrine.

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Teacher: How old would a person be who was born in 1898?  
Kid: Man or woman?

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