

THE TECHNICIAN

of NORTH CAROLINA STATE COLLEGE

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STATE COLLEGE STATION, RALEIGH, N. C., OCTOBER 31, 1947

Offices: 10 and 11 Tompkins Hall

Athletic Council Settles Student Ducat Queries

Baver Replaced by Hilton; Accepts Hawaiian Position

Dr. L. D. Baver, dean of the School of Agriculture at N. C. State College and director of the North Carolina Agricultural Experiment Station, has resigned, effective January 1, to become director of research for the Hawaiian Sugar Planters' Association, Chancellor J. W. Harrelson has announced.

Chancellor Harrelson also announced that Dr. James H. Hilton, head of the College's Department of Animal Industry, has been appointed to succeed Dean Baver. Dr. Hilton will be dean of agriculture and director of the Experiment Station.

Dr. Hilton's appointment was unanimously recommended by the executive committee and the committee on agriculture of the Greater University's Board of Trustees and by a State College faculty committee. He is regarded as one of the top-ranking authorities in his field in the entire nation.

Cummings Appointed as Director

Upon the recommendation of the faculty committee, Chancellor Har-

relson also appointed Dr. Ralph W. Cummings as associate director of the Experiment Station and Dr. Carey H. Bostian as associate dean of the School of Agriculture. Dr. Cummings is now assistant station director, and Dr. Bostian is assistant director of instruction in the school.

Dr. Hilton, a native of Catawba County, did undergraduate work at N. C. State College and Iowa State College, where he received his bachelor of science degree in 1922. He was awarded his master of science degree from the University of Wisconsin in 1937 and received his doctor of science degree from Purdue University in 1945. He is 47 years of age and became head of the State College Department of Animal Industry on January 1, 1945.

Worked as Farm Agent

Possessing wide experience in teaching and research work, Dr. Hilton has worked as a county farm agent in Iowa, assistant State club leader in Iowa, instructor at Iowa State, and a research scientist and assistant chief of animal husbandry at Purdue University. He resigned his post at Purdue to come to State College in 1945.

The new dean is author or co-author of 30 scientific articles and experiment station bulletins, has assisted in working out undergraduate and graduate livestock programs in teaching and research at Purdue, has 16 years of experience in teaching and research on dairy production, and has officiated as a judge of dairy cattle at some of the nation's leading livestock shows.

Native of Ohio

A native of Ohio, Dr. Baver became State College's dean of agriculture on September 1, 1945, when Dean I. O. Schaub resigned the post to devote his full-time service as director of the College's Agricultural Extension Service. Dean Baver came to State College in 1940 as

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Cash via Cloyd



Frosh Wins Scholarship Award

By HARPER THAYER
Alvin Wilkins Jenkins, freshman in Electrical Engineering, received a prize of \$50 from the Pepsi Cola Company last week in Dean Cloyd's office.

Alvin was granted a certificate of merit as a finalist in the 1947 Pepsi-Cola scholarship competition. The awards were based on the results of general intelligence tests which are given and sponsored each spring by the Pepsi-Cola Company. Alvin took the test along with nineteen other seniors last spring at the Needham B. Broughton high school.

The contest is a national affair sponsored in all 48 states each

year. The contestants compete only against other students of their own state. This is done to keep the boys and girls, studying in regions of superior schools, from capturing all the prizes. Two \$2400 scholarships are offered in each state to the two best students in the state. In addition, certificates of merit worth \$50 each are given to the next best students of the state. The number of certificates varies with the population; twelve were given in North Carolina.

Practically the only requirement for eligibility is entrance into an accredited college by the fall term of 1947. Alvin easily satisfied this condition by entering State college this fall in the School of Engineering. He is a full-time student, living with his parents on Vanderbilt Avenue.

Only the Beginning

The recently-completed job of paving the street past the stadium marked the beginning of a long-range program of campus improvement. W. F. Morris, manager of the State College Service Department, announced recently. Plans call for the eventual paving of the streets all the way to the Textile building, but, since the extent of such work must be predicted upon the amount of funds made available for the purpose, no more work on the roads is likely to be done until after February 1, 1948.

In the meantime, a reinforced crew of campus workers will go ahead with the job of pulling out unsightly trees and bushes and replacing them with smaller shrubbery more pleasing to the eye.

Wives' Tickets Good At Carolina Game

The question of admission to the Carolina game was finally settled last Wednesday at noon at a meeting of the Athletic Council in Dr. Fisher's office.

It was brought out during the meeting that, contrary to persistent rumors, there was never any intention on the part of the officials to charge State students \$49 tax if they were seated in the State student's section. The only students who will have to pay the \$49 tax are those who carry dates to the game, since these students will not be seated in the section allotted to the State student body. Date tickets will be sold at the regular admission price of \$3.00. Students carrying dates to the game will be charged a total of \$3.49—\$.49 for the tax on the student's seat and \$3.00 for the date's ticket.

The most important discussion of the meeting centered around the status of the season tickets now held by students' wives. Jennings Teal, president of the Campus Government, made a motion that the season tickets now held by students' and faculty members' wives be honored at the game. The motion further stated that the cost of this action be defrayed by the Athletic Council. Until that time students' wives were to be charged the regular admission price of \$3.00, and faculty members' wives were to be charged one-half price. At the suggestion of a member of the faculty the motion was amended to honor the season tickets of the students' wives only—which would leave the arrangements for faculty wives as is. It was pointed out that there exists a difference in economic status of the two groups in question and that students' wives should be given prior consideration.

After several other aspects of the question were discussed the motion was finally reduced to honoring the season tickets now held by wives of students. The motion carried unanimously.

Mr. Von Glahn requested that all students planning to sit in the State College student section at the Carolina game come by the Athletic office to pick up a coupon before Tuesday night. There is no charge for these coupons but they must be presented along with athletic books for admission to the Carolina game. Date tickets went on sale this morning. Students with wives holding season tickets must present their athletic books and their season tickets in order to get ducats to the game.

Everyone Check This!

Mr. Von Glahn has stated that everyone who wishes to attend the Carolina game and sit in the section reserved for State College students MUST come by the Athletic office and pick up a coupon. These coupons and student athletic books must be presented at the gate at Kenan Stadium next Saturday for admission to the game. These coupons must be picked up before Tuesday night.



DR. L. D. BAVER

WSSF Secretary Talks To Freshman Fellowship

Mr. Wilmer J. Kitchen, national secretary of the World's Student Service Fund, spoke to a group of more than fifty students in the YMCA auditorium last Thursday night. Mr. Kitchen's speech was made in conjunction with the regular meeting of the Freshman Fellowship. His subject was "Around the World With Students."

Mr. Kitchen was accompanied by Mrs. Phyllis Farley, who has just returned from Poland, where she had worked among students for eighteen months. Both Mr. Kitchen and Mrs. Farley told of their experiences in WSSF work.

Mr. Kitchen stated, "I wish we could say that we face a better year this year than last, but that is not the case. WSSF and every other good relief enterprise must go on."

Mrs. Farley, a native of Scotland, spoke about conditions in Central Europe. She told of the ever present destruction and signs of war on every hand. She said that many

students in Europe are victims of tuberculosis.

Mr. Kitchen lauded Chinese students for their tremendous efforts in moving their colleges from eastern China into the mountains before the advancing Japanese could seize them. He outlined the difficulties facing education in the East, chief of which is inflation.

Mr. Kitchen declared, "It is not only material aid that we give them. Books, clothing, medical aid, and food help; but it is the sense that someone is helping them—that they are not alone."

WSSF Budget

In the WSSF budget for this year, China is to receive 40% of the funds; India, 20%; and eastern Europe, 40%.

Appraising the overall situation, Mrs. Farley opined, "With just a little help in the right direction they can start something themselves."

Frank Hildebrand introduced the speakers, and Ed Baesel was in charge of the devotionals.

Snake Dance

A snake dance by a professionally tutored dancer will be the spotlight feature of a snake-killing preview pep rally in Riddick Stadium tonight at 6:45. The rally is being sponsored by the Y.M.C.A.

The Redcoat Band will march around the campus prior to entering the stadium. Present plans call for students to fall in behind the band and follow them into the stadium. The Glee Club will be present and will lead a brief session of singing in an effort to familiarize the student body with State College songs. Song sheets will be furnished by Nu Beta Psi, honorary music society, in the interest of furthering school spirit. Members of the team will be present to give their views of the game.

According to Joe Houston, director of the rally, the program will be unusual and interesting, and he urges all students to attend.

WVWP Facilities Offered To Campus Organizations

In an effort to serve the students better, radio station WVWP is offering gratis the facilities of the station to all campus organizations.

In a letter to all the professional organizations and schools, Swanson proposed to let them each produce a program describing their activities. WVWP will broadcast any number of programs featuring dramatizations, speeches, or music depicting the functions, purpose, and activities of all campus organizations except fraternities.

Any group that wants the date and time of their meetings publicized may notify WVWP at least a day ahead of the meeting. The notices will be broadcast on Bill Hilliard's nightly program of Raleigh and State College news.

The Student Government and a professional electrical society, together with the radio station, are sponsoring the installation of loudspeakers in the cafeteria. The speakers will provide soft dinner music during the serving hours.

It is rumored around that WVWP will obtain two studios and other space in 1911 Building soon. Colonel Harrelson has expressed approval of the project to award new space to the radio station. WVWP might also get money for remodeling or for an additional transmitter.

The staff of WVWP is working with the Communications Center of the University on producing a show for University Hour. Nothing definite has been done because of the lack of facilities here.

AMBASSADOR

Now Playing!
Katharine Hepburn and Paul Henreid in
"SONG OF LOVE"

Sunday-Monday-Tuesday
Marlene Dietrich - Ray Milland
in
"GOLDEN EARRINGS"

Wed.-Thurs.-Fri.-Sat.
Tyrone Power and Jean Blondell
in
"NIGHTMARE ALLEY"

Fine's

mens SHOP



Wildlife Club Gets New Name at Meeting

The Leopold Wildlife Society held its first meeting of the fall term Thursday night at 7:30 in the zoology building.

The following officers were elected: Walter Price, president; Jack Dermid, vice-president; Carl Smith, secretary; Yates Barber, treasurer; and George Horel, program chairman.

Following the election, other business matters were considered. The name of the group was officially changed from State College Wildlife Club to Leopold Wildlife Society. The action was taken in honor of Dr. Aldo Leopold, renowned educator and pioneer in the field of game management. In addition, tentative plans were made for an outing in the near future.

The students of wildlife conservation and management have a new professor this year. He is Dr. F. S. Barkalow, Jr., a former instructor of zoology at Alabama Polytechnic Institute and biologist in charge of the Pittman-Robertson program in Alabama.

Retiring from office were Elliott Purlson, president; Malcolm Edwards, vice-president; Howard Stains, secretary; George Horel, treasurer; and Stuart Critcher, promoter.

Charlotte Club Plans For Christmas Dance

In its first meeting of the new school year, the State College Charlotte Club set forth plans to hold its annual Christmas Dance at Charlotte Armory Auditorium Friday, December 26th. About one hundred of the club's two hundred forty-five members were present at the meeting, which was held in the YMCA October 8th.

Business Manager George N. Paine resigned from his position, being succeeded by Lewis Potter; and Charles West replaced Austin Sauls as publicity chairman. Oren Rhyme was appointed mailing committee chairman.

The club decided to acquire a "name band" for the dance. Action prohibiting Charlotte students who are not members of the Charlotte Club from attending the dance was approved. Also, it was pointed out that about eighty Charlotteans who are not affiliated with the club remain to be contacted concerning membership in the club. The club's next meeting is slated for October 29th, in the YMCA auditorium. Anyone interested in the Charlotte Club is urged to attend.

Beaux Arts Meeting

There will be an important meeting of the Beaux Arts Society Tuesday night at 7:30 o'clock in room 302 Daniels Hall. President Bill Ray urges that all members attend this meeting since important business matters will be discussed.

On The Lighter Side



Juke Box Saturday Night
Cartoon by Bill Addison

You're the man most likely to succeed!



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They put you way out in front for style and comfort. You'll like the smart seamanship, the low-set collar models, the action-tailoring, figure-fit. Sanforized fabrics, laboratory-tested 1500 times a month. Get your money's worth — always say *Van Heusen Shirts*. \$3.25, \$3.95, \$4.50. PHILLIPS JONES CORP., NEW YORK 1, N. Y.

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WE DELIVER

Medals Available For Issue To Veterans

World War II Victory Medals and American Defense Medals are now available for issue to veterans of the Armed Forces.

Veterans who served in the Army Ground Forces and Army Air Forces may obtain these medals from Headquarters North Carolina Military District, Raleigh Building, Raleigh, N. C. by applying in person at any time Mondays through Fridays between the hours of 0800 and 1700 or by making application to this same Headquarters in Raleigh by mail. Former enlisted personnel must submit at the time they apply or must include in mail requests their discharge certificate; former officers must submit in person or include in mail request a certificate of service or any other War Department official statement of service.

Navy and Marine Corps Veterans may obtain medals from respective Recruiting Offices in the Post Office Building, Raleigh, at any time between 0800 and 1630 Mondays through Fridays and from 0800 to 1200 on Saturdays. Former enlisted personnel must

present their discharge papers and Form 553; former officers Form 553 and copy of orders releasing them from active duty. Mail requests will not be accepted.

World War II Victory Medal is authorized for issue if the applicant was in the service between 7 December 1941 and 31 December 1946 inclusive.

The American Defense Service Medal is authorized for services rendered between 8 September 1939 and 7 December 1941, provided that such duty was accomplished under orders covering a period of 12 months or longer. The Foreign Service Clasp and Star is authorized if the applicant served outside the continental limits of the United States including Alaska or as a member of a crew or airplane participating in regular and frequent ocean crossings, during any of the period between 8 September 1939 and 7 December 1941, inclusive.

FHA Representatives Speak to AG Club

Featured at the weekly meeting of the AG Club were two representatives from the Farmers Home Administration who brought to the members information on several vital subjects.

Mr. Slack appealed to all seniors in Agriculture to apply for Civil Service examinations even though they may have something else in mind because there are many jobs open for those who can qualify.

Mr. Swift also spoke on loans that are now available to small farmers who were war veterans.

Goal Set For College In Red Feather Drive

The goal for State College in the annual Raleigh Red Feather Drive has been placed at \$4,779.24. To date a total of \$1,041.50 has been collected, according to Miss Libby Bass, publicity director of the Red Feather Drive.

The combined goal for Raleigh colleges was placed at \$7,159.24. The majority of the total was assigned to State College. Other goal assignments are: Meredith, \$750; St. Mary's, \$650, and Peace College, \$480.

Dr. C. H. Bostian is in charge of collections on the State College campus.

CP&L Engineer Speaks at First IRE Smoker

The student branch of the Institute of Radio Engineers had its first smoker for the year last Wednesday night in Daniels Hall. The meeting was highlighted by a very interesting and educational speech by Mr. Blair Jenkins, communications engineer for the Carolina Power and Light Co., on carrier circuits, their equipment and usage. Plenty of hot coffee and doughnuts were on hand after the meeting.

The IRE is a fairly new organization on the school campus, having been initiated last year by some students and faculty members in the Electrical Engineering Department who have a keen interest in electronics. The IRE has already demonstrated that they have the spirit and ambition to become a useful and permanent function. Mr. Blair Jenkins is the first of many excellent speakers scheduled by the IRE for this school year.

Fraternities Pledge 280 Students This Year

The sixteen active fraternities at State College have pledged a total of 280 students for this school year. This list included the men pledged late last year and freshmen and others pledged this fall.

Sigma Nu with 37 pledges leads the list, while Sigma Chi runs a close second with 34 prospective members. The PIKA's with 21 and the SAE's and SAM's with twenty each are next in line. The number of pledges for the eleven remaining fraternities varies from 18 to 2.

The following men have been pledged:

Alpha Gamma Rho
C. W. Allen, Creedmoor; J. W. Allison, Iva, S. C.; R. J. Alvis, Newport News, Va.; D. A. Biggerstaff, Bessemer City; David L. Bowen, Burgaw; T. F. Corriher, Lincoln; John Holman, Cypress, Louisiana; J. M. Davis, Jr., East Bend; A. R. Harris, Mooresville, N. C.; G. D. Hunt, Dallas; Neil A. McFarland, Greensboro; John D. Mackie, Yadkinville; Frank D. Meacham, Raleigh; A. K. Pitzer, Portsmouth, Ohio; J. R. Rankin, Greensboro; C. A. Street, Jr., Winston-Salem; E. C. Tatum, Jr., Coolemece; L. A. White, Youngsville.

Delta Sigma Phi
W. S. Bull, Jr., Newport News, Va.; Thomas F. Cannon, Canton; Warner S. Goodwin, Raleigh; Paul E. Hine, Winston-Salem; J. L. Jones, Chase City, Va.; Earl T. Justice, Canton; Jim E. McBrayer, Hampton, Va.; C. W. McKenzie, Pinehurst; James T. Maddrey, Raleigh; Edwin D. Palmgreen, Winston-Salem; William W. Parrish, Wendell; Edward R. Pulsifer, Newport News, Va.; George W. Ray, High Point; Roger V. Terry, Newport News, Va.; B. F. Thrift, Raleigh; Larry E. Westmoreland, Baltimore, Md.; Woodrow Wilson, Henderson.

Kappa Alpha
Joel W. Baker, Newberry, S. C.; Jasper L. Brasington, Cheraw, S. C.; Henry A. Brown, Jr., Greenville, S. C.; Edward Pete Craig, Bassett, Va.; William C. Dodson, Rydal, Pa.; William M. Fetzer, Brevard; Robert E. Hardaway, Columbus, Ga.; R. A. Jones, Leaksville; A. S. Orr, Monroe; J. Holt Pease, Charlotte; Gibbon R. Pender, Charlotte; Charles P. Roberts, Shelby; C. Robert Shields, Scotland Neck; Roy W. Smith, Raleigh; H. Alex Vann, Monroe; Robert A. Willard, Wilson.

Kappa Sigma
Edward T. Barnes, Greensboro; William M. Barnhardt, Charlotte; Percy D. Cloud, Lilesville; Millard T. Dozier, Rocky Mount; Robert E. Garey, Wilmington; Robert M.

Heyward, Goldboro; Henry L. Jerome, Pittsboro; John L. Jerome, Pittsboro; Robert E. Peters, Raleigh; William A. Poe, Rockingham; Caldwell Eagan, Gastonia; Robert H. Rankin, Gastonia; Robert E. Simmons, Rockingham; Donald E. Stewart, Washington; Thomas P. Wall, Wadesboro; Leslie Weisger, Salisbury; Henry C. West, Monroe.

Lambda Chi Alpha
E. F. Brown, Concord; R. E. Carpenter, Shelby; B. Wilson Carter, Denton; J. R. Coffield, High Point; E. M. Downs, Fayetteville; K. P. Economov, Fayetteville; J. E. Foster, Jr., Snaverville; J. E. Fowler, Burlington; Robert C. Kennedy, Morganton; J. M. Maxwell, Laurinburg; J. F. Mitchell, Denton; D. B. Morrison, Concord; W. T. Ray, Chapel Hill; Hardy Bryant Smith, Raleigh; Millard R. Smith, Poplar Branch; George L. White, Fayetteville.

Phi Epsilon Tau
A. M. Brooks, New York, N. Y.; Robert A. Goodman, Indianapolis, Indiana; Charles Imersheim, Woodmire, L. L. N. Y.; E. B. Kahn, Columbia, S. C.; Norman Korostoff, Far Rockaway, N. Y.; Larry J. Linker, New York, N. Y.; James J. Roche, Hewlett, N. Y.; James J. Rouse, Corry, Pa.; Howard Weinreich, Lawrence, N. Y.

Psi Kappa Tau
John P. Alexander, Elizabeth City; Charles W. West, Charlotte.
Pi Kappa Alpha
E. P. Andrew, Jr., Charlotte; S. G. Conrad, Greensboro; W. S. Corbit, Jr., Henderson; W. H. Dillingham, Asheville; W. C. English, Winston-Salem; D. G. Freeman, Greensboro; D. T. Horning, Charlotte; J. H. Jones, Charlotte; W. F. Kelly, Raleigh; T. A. McAdams, Jr., Greensboro; J. M. Moore, Mt. Holly; H. N. Nunn, Charlotte; Beverly Ross, Cary; W. T. Simpson, Burlington; D. T. Spencer, Greensboro; M. D. Studier, Burlington; F. F. Stafford, Greensboro; R. G. Uley, Concord; R. E. White, Bladenboro; Hall Wingfield, Salisbury; K. W. Winston, Raleigh.

Psi Kappa Phi
Jim E. Blue, Laurinburg; James Bogie, Albemarle; D. N. Fowler, Charlotte; John V. Fox, Randleman; Thomas Gill, Kittrell; Rufus K. Herring, Thomasville; C. Jack Howell, Concord; Robert C. Jones, Charlotte; Maurice W. Lamb, Wilmington, Delaware; Johnny Reed, Radin; Lewis J. Resp, Lenoir.

Sigma Alpha Epsilon
Robert Alexander, Greensboro; Joe B. Atkinson, Edinburg, Texas; L. Elwood, Boyled, High Point; John T. Carter, Danville, Va.; W. M. Clark, Greensboro; Ralph P. Coble, Greensboro; Ben K. Erdman, Fort Bragg; Tom E. Farrington, Valdese; Neal M. Jones, Greensboro; Ross W. Lampe, Raleigh; Deward Lefler, Albemarle; Luther Lewis, High Point; Riley Little, Greensboro; Ben O. Merritt, Robbins; William B. Patten, Raleigh; Carl A. Pendley, Fort Bragg; Clair W. Roberts, Greensboro.
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Winston-Salem, N. C.

Are You Proud of Yours



—Or Don't You Have One . . .

There was a time when every State College student had as many as three or four beautiful women on their list; when each and every one of these students were proud of their women and would swear on a Handbook of Chemistry and Physics that she was the best; when they would have given almost anything to get a picture of said same women in the Agromeck.

Is this true today? Are State College students ashamed of their women? These are some of the questions that have been running through our minds since the beginning of the TECHNICIAN-Agromeck beauty contest. Whether the answer to these questions are yes or no, we are in no position to say. But if the answer is yes, then we feel certain that something is radically wrong with the average State College student.

There have been many caustic remarks in the past about the sponsor section in the Agromeck. Some have held that all that space should be devoted to students' events and some have held that the average student should have a chance to display his women.

The latter is exactly what the Agromeck is endeavoring to do, yet the number of entries could be counted on two hands. We ask again, are State College students ashamed of their women?

We Must Change!

The editorial in last week's TECHNICIAN concerning the apparent lack of school spirit here at State aroused a surprising amount of discussion, and that display of interest has encouraged us to make a few more remarks on the same subject.

Except for a passing comment on the performance of the cheer leaders, the editorial was aimed directly at the students themselves, and brother, that means YOU. We believe that most of you acknowledged that the charge was well founded; we also believe that you are willing to make an effort to improve the situation. Tonight there will be a pep rally sponsored by the "Y," and it will give all of us a chance to prove that we really mean business, so let's everybody turn out and show the Wolfpack that there's nothing half-hearted about our support!

This question of school spirit is of vital importance to all of us, and we simply cannot afford to be slackers. Unless we change our present attitude we may be in for some bitter disappointments during the remainder of the football season, and it will be our own fault, for as matters now stand, the State College student body doesn't deserve to have a winning team—and that's the God's truth.

Rumors and Tempers . . .

For several days letters have been coming into the TECHNICIAN office bemoaning the fact that arrangements for admission to the Carolina game were not quite up to scratch. Many students were irate because they heard there was to be a tax charge for each student. These students were needlessly irate, however, because there was absolutely no truth to the tax rumor.

Students' wives wished that something would be done about the fact that their season books were not to be honored at the Carolina game. This group had a well-founded complaint. They are right in believing that next Saturday's game is supposed to be a home game; and that, in so far as possible, we should receive the same consideration as if the game were to be played in Riddick Stadium.

The TECHNICIAN did not print anything about these questions last week because we felt that there was no sense in raising the roof with the Athletic Council until they had an opportunity to work out a solution to the problem. This solution was worked out last Wednesday.

Jennings Teal, president of the Campus Government, presented to the Athletic Council a well-prepared plan which passed after being altered only slightly. Although Teal's motion originally called for the honoring of both students' and faculty members' wives' season tickets, it was changed, at the suggestion of a faculty member, to honor only students' wives' season books.

The Athletic Council showed every eagerness to arrange things in as fair a manner as possible. All sides of the questions were investigated before any action was taken. The interests of the student body were represented admirably by the delegates from the Campus Government and we may all rest assured that our Campus Government is working for us.

SHARPS & FLATS

By DAN SECHTIN

The first complete contemporary opera ever to be put on records, Gian Carlo Menotti's current Broadway success, "The Medium," and its curtain raiser, the "Telephone," were recorded by Columbia. The records will be issued in two albums early in the new year, and will include a total of twenty sides. The Liberetti, as well as the music, are by this talented young Italian-American composer.

The same casts which created the rolls in the Broadway productions take part in the recordings. "The Medium" features Marie Powers, contralto, as Madame Flora, and Evelyn Keller, soprano, as Monica. In the "Telephone," Marilyn Cotow, soprano, and Frank Rogier, baritone, repeat their original roles. The orchestra is conducted by Emanuel Balaban.

The plot of the "Medium," which has been termed as a philosophical horror story, concerns a fake spiritualist, Madame Flora who, becoming a victim of her own charlatanism, visits terror on her daughter, Monica, and the mute boy, Toby, whom Monica loves. "The Telephone" is a satirical piece describing the trials of a young suitor, Ben, whose courtship of his girl-friend, Lucy, is disturbed by the incessant ringing of her tele-

phone. Both operas have been playing to packed houses since April, and were heard with great enthusiasm by radio audiences over the CBS network on August 10.

Claude Thornhill and his orchestra have just completed a new platter which rates acknowledgment. Claude's arrangements are the talk of musical circles, for their dramatic contrasts; the crescendos of brass and the singing piano passages with only a suggestion of rhythm behind, make music that keeps the attention of all ears. "Warsaw Concerto" adapted, of course, from the classical number, affords the best of opportunities for this wonderful band to pull out all the stops. The ingenious blending of what is basically piano composing, with the colorful instrumental passages is such that this record will stand as a fine example of what dance music can achieve with sincere and talented arranging. On the other side is "Love for Love," a dramatic and torchy ballad. Claude has made an arrangement of this number that brings out the depth of the tune and appropriately backs the simple dignity of the lyrics. Fran Warren's vocal does full justice to this dramatic number and the whole presentation is one that chalks up another triumph for the Thornhill gang.

Open Forum

Dear Sir:

I have read with approval your recent articles deploring the poor spirit exhibited by the majority of students at athletic events. An example of that lack of spirit was forcibly demonstrated to me today when I was witness to a lamentable transaction.

Late this afternoon a member of the PKA fraternity at Chapel Hill came to the State College campus to rent machinery for a fraternity display at the Carolina Homecoming Game. The State student with full knowledge that the machinery was to be used in a display/deriding the Wolfpack, willingly let his property be taken for this purpose.

What has happened to State College students? I was here before the war, and I can confidently say that at that time if a Carolina student came to this campus for such purposes he would have left the campus rapidly, his mission unaccomplished, and a number of loyal State College men at his heels. Have we sunk so low?

I hope that you will continue to do all in your power to foster in our student body a spirit of school pride and competition which is now sadly lacking.

Very truly yours,
WILTON ALLEY.

AIEE Meets

Claude Burkhead announced that there will be a business meeting of the American Institute of Electrical Engineers this Tuesday night in Daniels Hall. After a very successful meeting two weeks ago, which included a lecture on Telemetering and Control Circuits, the AIEE has big plans for this year.

As its name implies, the institute is a professional organization, its main purpose being to promote the exchange of ideas and information among its members. The student branch of the AIEE restricts its membership to sophomores, juniors, and seniors in Electrical Engineering. Since it is advantageous, both financial and otherwise, to join the institute while still in school, the local chapter has quite a large enrollment.

Vetville News

By BILL AILOR

Bob Thompson, Apt. 8-E, has been appointed Traffic Director for Vetville by Mayor Jim Reece. Eight assistant traffic directors have been appointed to represent each ward on the Traffic Committee.

A number of recommendations have been made to the college in an effort to solve the problem of speeding and other violations. Among these suggestions are: erection of proper signs and notices in the Vetville area, the erection of a reflector-type speed notice at the entrance of the community, the deputizing of two Vetville residents to help enforce rules, as well as the possibility of having Mr. Rhodes, the college traffic officer, make Vetville a part of his enforcement area. Also it has been requested that permission be granted for the creation of speed traps in the area. These would be measured distances over which car speeds could be determined accurately.

Likewise, the use of a city policeman at certain hours and trial of cases by city courts would put teeth in the enforcement of rules.

Full publicity will be given all cases and violators in the community news sheet, *The Vetville News*.

The first meeting of the new Traffic Committee was held Wednesday night at the apartment of Bob Thompson, Director.

The Vetville Council will meet tonight at 8:10 p.m. in Apt. 15-F. Business will include health problems and traffic control.

It Says Here—

A position on the business staff of the Watauga affords you an excellent opportunity to meet a large number of students and business men. There are many phases of work on the business staff that are interesting and that offer an opportunity for any student to show originality.

Among the jobs that you may select are: ad make-up, ad salesman, and numerous jobs in the circulation department. Come up to the staff meeting next Wednesday at 7:30 p.m. in the publication's building and sign-up for the job that would most interest you.

THE TECHNICIAN

Published Weekly  North Carolina
By the Students State College

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Research Department Gets Fund For Mineral Studies

The U. S. Department of Commerce has allotted \$12,500 to the Department of Engineering Research for use in research work on the evaluation of North Carolina clays and limestones as raw materials in the manufacture of Portland cement. Dr. W. G. Van Note, director of engineering research at the college, announced recently.

Research work, including the testing of samples of the two minerals found in the eastern section of the State, already has been started in the College's Department of Chemical Engineering by Dr. K. O. Beatty, Jr., technical director of the project.

"Very Promising"

Both Dr. Van Note and Dr. Beatty described the first results of the experimental studies as "very promising" and said that the work may lead to the development of new industries, bringing several millions of dollars of additional annual income to Tar Heel business firms.

Dr. Beatty reported that North Carolina now imports two to three million barrels of materials for Portland cement at an estimated cost of \$8,000,000 each year. The raw materials now used in this State come from Georgia and Virginia, he stated.

Purify Limestone

In addition to studying the suitability of the North Carolina clays and limestones for use in cement manufacturing, Dr. Beatty and his associate, Robert B. Adair, are investigating the possibilities of purifying the limestones for manufacturing purposes.

"Small quantities of the samples of clays and limestones used have very promising qualities," Dr. Beatty said.

Subsistence Checks To Arrive in November

State College veterans should receive their subsistence checks between November 1 and November 15 according to information released by the campus office of the Veterans Administration. Delays will be encountered in some individual cases, however, and the veteran students are requested to follow the procedure outlined below:

(1) Those students previously enrolled here under the G.I. Bill and those new students that submitted Certificates of Eligibility upon entering who have received statements from the Veterans Administration saying their checks should be received on or by November 5 but have not received them by November 7 should report the matter to the Training Officers in room 107, 1911 Building, on November 7 or soon thereafter.

(2) All others should file their complaints on or after November 14 and should keep in contact with the office as directed until the checks are received.

ty said. "The current effort," he added, "is directed toward securing large enough quantities for complete evaluation of all the properties of Portland cement."

Commerce Supports Project

The project was first undertaken through funds provided by the State Department of Conservation and Development, but later the Department of Commerce in Washington noted the significance of the work and assumed the financial burden. The College's Departments of Chemical and Ceramic Engineering are conducting the research as a part of the functions of the Department of Engineering Research.

A small rotary kiln and a four-cell flotation unit have been set up as the main pieces of equipment in the laboratory.

Dr. Beatty, a native of Pennsylvania and a graduate of the University of Michigan, said that if the North Carolina minerals can be adapted for manufacturing needs, industries may expand their development in the State.

Freshman Club Elects Officers

The Freshman Fellowship held its regular meeting this week. Election of officers was the main business. Warren Barfield, of WPTF, was present at last week's meeting to lead the boys in group singing. The group enjoyed refreshments after the program.

WC Upper Classmen To Attend Party

About one hundred upperclassmen from WCUNC at Greensboro will attend a party at the YMCA tomorrow afternoon and see the State-Chattanooga football game tomorrow night. The deputation will arrive from Greensboro at three o'clock; dancing will be in order until six, when supper will be served. The group, with their escorts, will then attend the football game.

Tickets for the supper may be purchased from YMCA cabinet members—Avery Brock, Ira Helms, Ed Smith, Leon Mann, Marshall Propst, L. H. Rickenbacker, Franklin Teague, Frank Hildebrand, Dave Kirkman, Edgar Orr, Worth Stinson, Joe Houston, Lewis Dunn, Bill Thornton, Bob Friedman, B. T. Williams, and P. H. MacDonald, Jr.

Last Chance

For any Freshman to have his Class Picture made Friday night Oct. 31-7 to 10:30-Pub. Bldg.

For any on-campus student to have his picture made Friday night Oct. 31-7 to 10:30 Pub. Bldg.

All students in Vetville will have their class pictures made Mon. & Tues. night at the Colonel's office—look for notices.

There are several unidentified pictures in the Agromeck office.

Everyone please check their proofs as soon as possible.

The office is open from 2 to 5:30 and from 7 to 9 at night every day.

Cards will be mailed to off-campus students telling them when to have their pictures made.

ASCE President To Speak

Today, the North Carolina Section of the American Society of Civil Engineers is holding a meeting in the auditorium of the College Y.M.C.A. The meeting is divided into morning and afternoon sessions.

At 11 o'clock a paper on "Design Standards for the Interstate System of National Highways" will be presented by Mr. B. P. McWorter, Division Engineer for the Public Roads Administration. Following Mr. McWhorter, Mr. William H. Meyer of New York will present a paper on "Photogrammetric Contour Mapping for Highway Location."

After the morning session luncheon will be served in the College grill section of the Cafeteria.

National President To Address Meeting

Feature of the afternoon will be an opening address by Mr. E. M. Hastings, National President of the American Society of Civil Engineers.

Students to Read Papers


Another highlight of the afternoon meeting will be the reading of papers by two members of the State College branch of ASCE. J. R. Armstrong, President of the Student Chapter will present a discussion titled "A Review of Chapter Activities and the New Civil Engineering Laboratories." Another paper "The Raleigh Traffic Survey as Prepared by Students in Transportation Engineering Courses," will be offered by C. H. Kahn, senior member of ASCE.

Later in the afternoon, Mr. Kenneth L. Coltrin, Chief of the Flood Control Branch for the U. S. Engineer Department in Norfolk will give a description of the planning and design for the powerhouse and dam on the Roanoke River at Bugg's Island.

There will be a business meeting of the AIEE Tuesday night at 7 o'clock in room 101 Daniels Hall.

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Wolfpack Plays Chattanooga Here Tomorrow Night

SPORTS TALK

By MAC McDUFFIE

State's Wolfpack does not have the most impressive record in the conference, nor has anything happened to make Coach Beattie Feathers' charges a favorite over their unplayed rivals—Carolina and Wake Forest—but do not count State out of any game as long as it has boys like Al Phillips on the team.

Al, a big right end and a senior, does not pull in the most sensational catches or boast a record of blocking two punts every Saturday afternoon, but he does make his presence known to every opposing back on the field during the course of the game.

However, the big native of Raleigh contributes immensely to the Wolfpack in the form of leadership and dependability. Al's record speaks for itself. Coach Feathers reserves the right to appoint the team captain for each game, but since returning from the Army, Al has been named captain or co-captain by the Wolfpack's head mentor for every game.

Although not the largest, Phillips is definitely one of the toughest men in the conference. He is respected alike by foes and teammates, and Line Coach Lyle Rich depends considerably on Al for his defensive performance. Opponents during the past year have suffered severely for attempting reverses around Al's end of the line.

Phillips, who played for State prior to the war, has an infinite supply of energy and spirit. It can honestly be said that Al never has the slightest notion that the Wolfpack is the underdog in any game or that it can be beaten.

Al's philosophy is that if the team will play it will win a majority of its games. As a matter of fact, past performances mean absolutely nothing to Al; because he believes that each Saturday is a new game and that the teams have equal chances regardless of what the journalistic prognosticator and bookies have to say about the game.

This is Al's last year with the Wolfpack, but he is the type of person that will always be a valuable supporter of State and cheer them on whether from the huddle or from the stadium. The handsome blond end is studying textiles and is a good student.

Fans have a way of overlooking players like Phillips, but such players are always favorites with the members of the team and the coaching staff.

Briefly, it can be said that Al likes competition, plays much harder than is expected of him, and plays to win.

Incidentally, the Wolfpack loss to the Florida 'Gators' attracted some attention over at Carolina. One of the members of the sports staff of the Daily Tar Heel, stu-

Feathers' Outfit Tangles With Southeastern Eleven

By DAVE FRANKLIN

Saturday night the State College Wolfpack meets the Moccasins from the University of Chattanooga in what may well prove to be a very interesting game. Chattanooga comes to State with a won-lost percentage of .600 which is better than the .500 record of the Wolfpack. Both of the defeats that the Moccasins have suffered have been expected; Chattanooga has bowed to the University of Tennessee and to Mississippi State, only after hard games when the strength of substitutes determined the fate of the ball games. These teams are powers in the Southeastern Conference, which, needless to say, is just as strong as the Southern Conference. That spells trouble for the Wolfpack.

Moccasins Strong

Chattanooga can field a team which is just as strong as the Florida team which made the State team look sick two weeks ago. They run from a Notre Dame shift on the offense, with four of the best backs in small college football in the backfield. Against Centenary the Moccasins gained 289 yards rushing and completed 14 of 19 pass attempts for 154 yards; that was on the same day that the Florida 'Gators' hit the campus like a bolt from the blue. Last week Chattanooga upset a team from Dayton with a passing game in the last quarter to win 19-13. The Moc's line averages 195, which is just as big as that of the Big Red; their backfield is composed of boys who have demonstrated their ability to run with the ball or pitch it around. State must play wide-awake foot-

ball to win the game.

The State College Wolfpack has had trouble living down the praise they received for their play in the Duke game. Saturday night the cards will be showing at the beginning of the game. The Wolfpack should win the ball game, because they are potentially a very good team, given even breaks. So far this year the Big Red has waited until the second half to win the game. Can they be expected to be red hot in the first half? Have they learned to play steady football from the opening kick-off and not be content to try to win the game in the last quarter, if possible; and if that is not possible, to win a "moral" victory? If they have not, how do they expect to beat the Tar

dent paper, came forth with an excuse for State's defeat.

Billy Carmichael, III, in a column, "The Sporting Picture," wrote, "State tallied a touchdown in the second period, but failed as miserably in the try for the conversion as they did on two later field goal attempts. If State could kick the football about as well as they kick about Charlie Justice, they might not lose 7-6 ball games."

Young Mister Carmichael may have the facts or he may be trying to add a little color to his column.

WVWP PROGRAM

- 7:00 Sign On
- 7:00 Juke Box
- 7:30 College News
- 7:35 Vocal Varieties
- 8:00 Bandstand
- 8:30 Special Feature
- 9:00 Jive Jamboree
- 9:15 Request Show
- Phone 7861
- 10:30 Music to Study By
- 11:15 Concert Master
- 12:00 Sign Off

Tickets

Students are reminded that in order to be admitted to the State-Carolina game in Kenan Stadium at Chapel Hill next Saturday that they must obtain tickets here. The tickets and students books must be presented at the game also. Tickets are at the office of the athletic director.

Heels and the Wake Forest Deacons?

What will the Wolfpack do against the Chattanooga Moccasins? That is a question that will be answered on the field Saturday night in Riddick Stadium. We wonder just as you do. That is why we will be in the stands rooting for the Wolfpack, win or lose; and hoping the the BIG RED will play the game to win.

Intramural Results

VOLLEYBALL

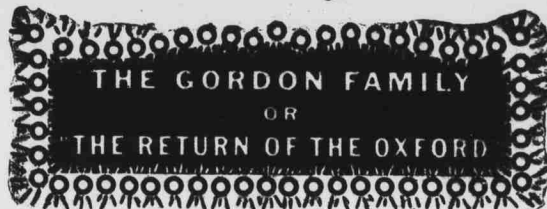
- P.K.A. defeated Delta Sig, 15-8, 15-11.
- Sigma Pi defeated S.A.E., 15-7, 14-16, 15-12.
- Sigma Chi defeated S.A.M., 14-16, 15-12, 15-6.
- Kappa Sig defeated Sigma Nu, 15-8, 15-11.
- P.E.T. defeated Kappa Alpha, 15-7, 1-15, 15-4.
- S.P.E. defeated A.G.R., 15-8, 14-16, 15-8.
- 3rd Becton defeated 1st Bagwell, 15-12, 7-15, 15-3.
- 1st Syme defeated 3rd Syme, 15-3, 16-14.
- Vetville defeated 3rd Bagwell, 10-15, 15-2, 15-9.
- 3rd Turlington won by forfeit over 2nd Alexander.

- S. Watauga defeated 2nd Becton, 15-13, 15-10.
- 1st Becton defeated Welch, 15-3, 7-15, 15-0.

FOOTBALL

- 1st Becton 31, 1st Alexander 0.
- Berry 0, 3rd Bagwell 14.
- 2nd Alexander 32, 1st Turlington 0.
- Sigma Pi 12, T.K.E. 0.
- P.K.A. 20, Delta Sig 0.
- Pi Kappa Phi 7, Kappa Alpha 0.
- S. Watauga 0, 1st Syme 0.
- Sigma Nu 19, S.A.E. 0.
- S.P.E. 19, A.G.R. 0.
- Sigma Chi 6, S.A.M. 6.
- 2nd Turlington 12, 2nd Bagwell 0.
- 1st Becton, won by forfeit over 3rd Turlington.
- Pi Kappa Phi 18, Delta Sig 0.
- P.K.A. 51, S.A.M. 0.
- S.P.E. 18, Kappa Sig 0.

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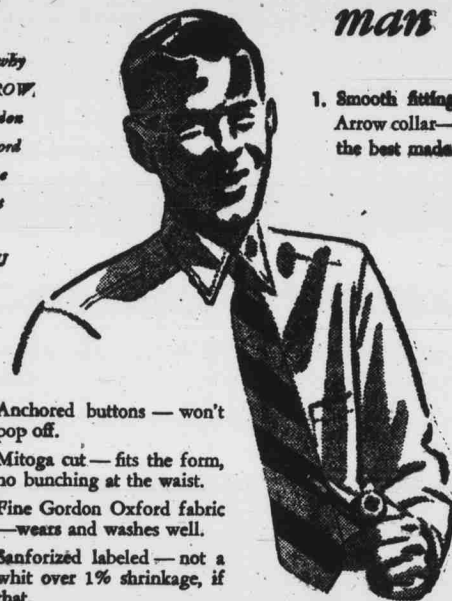
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The Moccasins

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POWELL & GRIFFIS

Pi Kappa Alpha Wins Smashing Victory Over SAM

Tennis Tourney Lagging; Boxing Starts in November

By HERB BRENNER

The mighty PIKAs proved their power and strength last Monday when they rolled over the fratres from Sigma Alpha Mu by the unbelievable score of 51-0. The SAMMY'S, after playing one of their best games last Friday in their 6-6 tie with SIGMA CHI, couldn't seem to click as their passing attack was consistently bogged down by the defensive backs in the PIKER line-up.

The PIKAs opened their dashing attack early in the initial period when Peyton Hollaman, fullback ace for the victors, on the opening day, passed to Louis Cramer, High Point lad, for a gain of 30 yards. Then, with a first and ten, Oscar Miller stepped back and tossed to the right end for the tally. The extra point was good by a pass.

After the kickoff by the PIKAs, the SAMMY'S held the ball until the fourth down, when a pass was attempted by Dick Sontag which was racked in on a beautiful interception by Hollaman and run for

the second tally, and the extra point was again good.

Miller Stars

Leading 14-0, the PIKAs bolstered their score once more in the second quarter when Miller flipped the pigskin to Hollaman who in turn carried the ball to the SAM one yard line; then on the next play Don Lampke drove through center for the score. The try to make it 21 failed.

That's the way the game went, the PIKA's taking advantage of every SAMMY pass on excellent interceptions. Tom Winston also chalked up a tally for the victors in the second quarter on an intercepted pass by Jimmie Frie haf, tailback for the losers, and raced for pay dirt. Kenneth Winston, Tom's brother, intercepted another pass and pushed his way to the end stripes only seconds later. The half ended as the P.K.A. fratmen lead 32-0.

In the second half, after receiving the SAM kickoff, and driving up to their own 40, the PIKAs renewed

their passing attack when Hollaman tossed to Jimmy Jones who in turn lateralled to Louis Cramer who dashed to the end zone.

Another Score

Two minutes later, another pass thrown by Sontag was again intercepted, this time by Cramer who ran for his third six points of the game. On the following PIKAs' kickoff, the Sammys again tried to push out of their own territory but their attempts failed and booting specialist, Frie haf was called upon to kick out of their dangerous position; however, the powerful rushing defensive linemen of the PIKAs proved all potent as they rushed through and blocked the kick. The ball was recovered by the P.K.A.'s on the SAMMY 32. The following play, an off tackle run netted five yards. On the next flip back from center, Miller, pushed off tackle for a 27 yard run and the tally. The try for the point was good.

The PIKAs then toed off and with two minutes left in the ball game, the Sigma attack started to click. Though it was late in the game and a win was definitely impossible, they showed plenty of spirit as they made a last final surge to attempt a score. Frie haf, on the snap

Cross Country Meet

Coach Tom Hines' cross country teams opens tomorrow afternoon against the harriers from the 82nd Airborne Division of Fort Bragg. It will be the test of a five-meet schedule for the Red and White runners.

back from Don Shulman, center, stepped back and heaved a high spiralling pass, almost thirty yards long, to Howard Jacobson, right end of the SAMMY'S who after a mad scramble with the pigskin, paced to the PIKAs eight yard marker. With twenty seconds left, Frie haf tried a pass but it fell incomplete. Time for one more play, and again Frie haf attempted the toss. The pass was complete, but Frie haf had stepped over the line of scrimmage so the tally was void. Thus, ended a final lunge by a game bunch of "Southern SAMMY'S" and there

was written in the PIKAs history book another victory, well-earned and well-deserved; for without a doubt, the fratres from P.K.A. had a superb ball club, good on offense and equally well on defense.

The main attack on the Sigma Alpha Mu line was composed of big Shevil Siff, husky Winston-Salem guard and Don Shulman, center. Another important factor to note is that the PIKAs second team played ball that could well match their varsity brothers. In the backfield, for the victors it was Hollaman, Cramer, and Miller, while for the losers it was Sontag and Frie haf, the two boys who played the entire game for the SAMMY'S.

Tennis Starts

Tennis has finally gotten underway, but to a slow start due to the rainy weather. Sigma Nu defeated A.G.R. and S.A.E. defeated Sigma Pi in the matches that the frat-

(Continued on Page 8)



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Homecoming Program To Begin With Big Pep Rally

On Saturday afternoon, November 15, the State College Wolfpack will play the Deacons from Wake Forest in a football game which will be the feature attraction of the Homecoming week end. Other programs of interest include a pep rally and a stunt night on Friday, November 14; a decorations contest, which will be held on Saturday morning and a dance sponsored by the Monogram Club Saturday night.

The pep rally will be the first scheduled event for the week end; it will be held in Riddick Stadium early Friday night. The stunt night contests will be held in Pullen Hall after the pep rally. The decorations contests will be in two divisions; there will be a separate contest for the fraternity houses and one for the dormitories so that fraternity houses will compete against each

other, but not with the dormitories. Similarly, the dormitories will not compete against the fraternity houses. Judging for the decorations contests will be held Saturday morning.

Along with welcoming old friends to the campus, class reunions will be held all during the day Saturday. And at 2:00 p.m., all loyal State fans will gather in the stadium to see two great teams, one in red and one in black and gold, will play for the Wake County championship of 1947.

Saturday night there will be a dance that will either celebrate a victory over Wake Forest or celebrate the fact that a very good team in Red played and lost a hard game. A more complete story of the plans for the entire week end will be carried in the TECHNICIAN next week.

Baver Resigns

(Continued from Page 1)

head of the agronomy department and associate director of the Experiment Station. He has been the station director since October, 1941.

Dr. Baver, known nationally for his achievements in agricultural education and research, is a graduate of Ohio State University and the University of Missouri, where he received his doctorate in 1929.

Dr. Baver will assume the duties as research director of the Hawaiian Sugar Planters' Association shortly after the first of the year. The association's experiment station maintains its headquarters in Honolulu, with branch stations on the islands of Oahu, Maui, Kauai, and Hawaii.

Explains New Duties

In explaining his new duties, Dr. Baver said:

"The industry is now in the second era or period of its research program, namely, the mechanization problems associated in changing over from hand labor to mechanized production. The first period

of research centered around the insect and disease control problems that make it possible to produce sugar cane on the islands. The second period will be followed by a program of fundamental research in soil physics, plant biochemistry, sugar technology, and other fields that will aim at increased efficiency in sugar cane production and sugar manufacture."

Chancellor Harrelson praised Dr. Baver's record at the college and stated that he regretted to lose him.

Tennis Tourney

(Continued from Page 7)

ilities have played so far. In the dorm division, 2nd Becton won over 1st Turlington and Welch won over 3rd Turlington. Mr. Miller has urgently stressed that it will be necessary for all managers to contact their opponents and arrange a date for their games to be played in order that eliminations may proceed. This course has had to be taken due to the fact that matches have fallen so far behind schedule.

CLASSIFIED

FOUND—Slide Rule found in Metallurgy Lab. Identify at 17-C Vetville.

LOST—One overcoat and blouse—Oct. 17, 1947—from hedge on edge of drill field. Finder please notify 203 Turlington or Technician office.

FOR SALE—Two and one-half room cabin, furnished, hot and cold water, shower, electric refrigerator, four acres of land; four miles from State College. See or call Miss Conley, Forestry Dept., 301 Ricks Hall.

FOR SALE—Tuxedo and Tails with pants. Size 36 or 38. Phone 6705.

FOR SALE—Tuxedo, size 38, double breasted, good condition. Phone 5288.

FOUND—One fountain pen without cap. See Major Leo M. Kane, Military Dept.

Fraternities

(Continued from Page 3)

C. C. Tripp, Raleigh; Linwood White, Wilmington; T. P. Williamson, Jr., Greensboro.

Sigma Alpha Mu

T. Bernstein, Philadelphia, Penn.; Irwin D. Binder, New York, N. Y.; Herbert Brenner, Winston Salem; David Brook, Lawrence, N. Y.; D. C. Feinholz, Mexico City, Mexico; James N. Freshof, Brooklyn, N. Y.; S. O. Gluck, New York, N. Y.; H. S. Goldberg, Brooklyn, N. Y.; H. Golenpaul, New Bedford, Mass.; Woodrow Goldsmith, Mt. Airy; H. L. Guild, Wilmington; S. P. Hersh, Winston Salem; Herbert Kahan, Port Chester, N. Y.; Richard L. Levin, Williamston; H. J. Meyer, New York, N. Y.; Arthur Meyers, Mt. Gilead; Sheldon Ruben, Portsmouth, Va.; Howard Schenkman, Brooklyn, N. Y.; C. G. Specterman, Tel-Aviv, Palestine; Leonard B. Temkin, Brooklyn, N. Y.

Sigma Chi

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Sigma Phi Epsilon

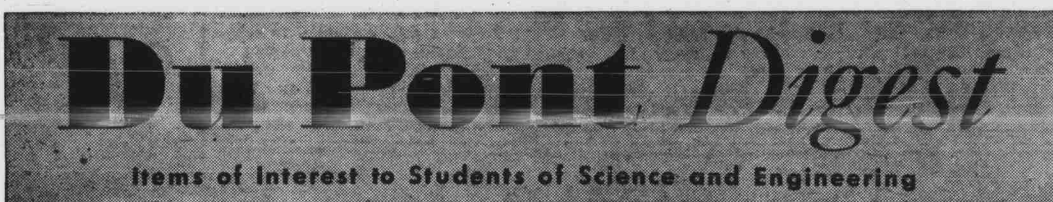
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Sigma Pi

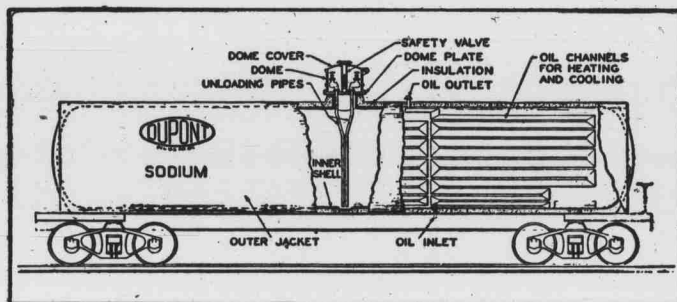
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Industrial Organic Applications of Metallic Sodium

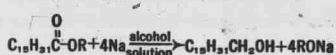


Sodium for organic reactions is shipped in 80,000-lb. quantities. It is pumped into the car, solidified by cooling and melted by hot oil for removal.

There would seem to be a considerable gap between the electrolysis of salt to make sodium, and research in the field of organic chemistry. However, at Du Pont as much emphasis is placed on organic research to develop outlets for sodium as on its inorganic uses.

For more than 15 years, intensive work on industrial uses for sodium has been carried on in Du Pont laboratories and plants by chemists, physicists, chemical, mechanical and electrical engineers.

In the organic field, this research has contributed a number of important uses for sodium such as the reduction of fatty esters, particularly of natural glycerides, to alcohols.



Du Pont organic chemists have found that sodium with selected secondary alcohols, such as methyl amyl alcohol, in the presence of toluene or

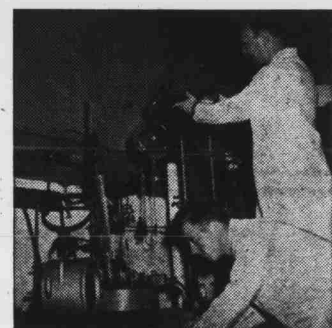
xylene, eliminates shortcomings of the classical method involving ethyl alcohol and sodium. Practically quantitative yields of the higher molecular weight alcohols are obtained.

This new method is especially useful in preparing unsaturated alcohols not easily made by catalytic hydrogenation. The process can be carried out at atmospheric pressure and compares favorably with catalytic hydrogenation of saturated, higher fatty esters because of the simplicity of operation and equipment.

The discovery of the new reaction conditions has led to the use of millions of pounds of sodium annually for manufacture of long-chain alcohols for wetting and emulsifying agents and synthetic detergents.

Other important processes developed by Du Pont organic research include the use of sodium for reduction of fatty esters to corresponding long-chain acyloins, and reduction of nitriles to primary amines.

Du Pont has also contributed to the development of many other uses for sodium and its simple derivatives, such as in the manufacture of tetraethyllead, used in high-grade motor fuels, dyestuffs synthesis, and descaling of alloy steels. In the form of sodium hydride or sodium alkoxides, sodium is a catalyst for many Claisen condensations, useful in the manufacture of barbiturates, sulfa drugs, vitamins, keto-acids and diketones.



Preparing to carry out an organic condensation reaction involving the use of sodium, R. B. Clark, B.S., West Virginia University '42, and W. J. Hills, M.S., Syracuse '36.

Questions College Men ask about working with Du Pont

WILL AN ADVANCED DEGREE HELP ME?

For certain types of work, particularly research and development, a higher degree is a distinct advantage and about a third of the men engaged in this work are Ph.D.'s. However, the majority of our technically trained men are Bachelors or Masters. Every effort is made to recognize a man's training as well as his special experience and aptitudes. Write for a copy of the new booklet, "The Du Pont Company and the College Graduate," 2521 Nemours Building, Wilmington 98, Delaware.



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