

The College Union Student Variety Show will be presented Friday, November 20 in Pullen Hall. Students and dates will be admitted by registration cards, faculty by College Union membership cards, others \$1.50 per person.

Entries to the show will be taken up to 4:30 p.m. November 16, at the College Union office.

There will be a checker tournament in the Y.M.C.A. at 7:30 on Thursday, November 19.

No entries will be accepted after 7:30.

There will be prizes for first and second place winners.

The tournament is sponsored by the College Union games committee.

## Ag Booth At Fair Take Top Honors

For presenting seven educational booths in connection with the Farm Crop Section of the N. C. State Fair, the Agronomy Club was awarded \$600 in prize money.

The top three booths netted their chairmen \$40, \$30, and \$20 respectively. The chairman of the other booths got \$10 apiece. The rest of the money went to the Agronomy Club.

Bill Collins, over-all chairman for the booths, awarded the ribbons and the prize money at the club meeting on October 29th.

The peanut booth was first place. James Griffin and Murray Goodwin, co-chairmen of the peanut booth, received the blue ribbon and \$40 prize money. By growing three plots of peanuts in the booth, they demonstrated the effects of excessive liming, no liming, and the recommended rate of liming peanuts.

The red ribbon and \$30 was presented to Robert Parker, chairman

of the Pasture and Forage Crop booth. The amount of hay, pasture, and silage a cow consumes per day was shown.

The cotton booth, manned by Bobby Bozman, Jerry Dickey and Bob Jenkins won the third place ribbon and \$20. In the exhibit was pictured the advantages of chemical weed control in the production of cotton.

The tobacco booth, exhibited by Bill Adams and Shep Moore, came in fourth and \$10 was awarded. The booth showed the losses in quality, quantity and value of cured tobacco infested with the costly tobacco diseases.

In fifth place came Tilden Angel's small grain booth. He received a ribbon and \$10. His plots of small grain demonstrated the effects of nitrogen application to small grain.

Van Jenkin's soybean booth won the sixth place ribbon and \$10. High yield in a weedy plot showed the advantages of correct cultivation.

Willard Wynn and Hope Shackelford's corn booth placed last. It represented the comparative advantages of anhydrous ammonia over other forms of nitrogen.

## Prof. Lee Authors Advanced Textbook

John F. Lee, engineering professor at State College, saw his first book published by McGraw-Hill Book Company, Inc., of New York released on November 1.

The book is entitled, *Theory and Design of Steam and Gas Turbines*, and is printed by the Maple Press of York, Pa.

"This is an advanced textbook which provides a fundamental approach to the design of steam and gas turbines," the author says of his text.

Lee says that the text is under consideration for teaching courses in several educational institutions. It will be used at State College during the winter quarter in a gas and steam turbine class taught by Lee, who is an associate professor of mechanical engineering.

Two purposes of the book, according to Lee, are "to eliminate repetition by incorporating gas turbines in an existing course in steam turbines" and "to meet the need of the practicing engineer whose experience and training have been largely in the field of steam turbines but who now finds himself concerned with the design of gas turbines."

Lee is a native of Boston, Mass. He received his B.S. degree from The Citadel, Charleston, S. C., and (Continued on page 5)

## "Legislators" To Meet Monday Nite

A new organization, the "State College Legislators," is now being formed on the campus. Its purpose will be to sensitize students to the importance of practical experience in democratic government and in active citizenship, and to provide, through the State Student Legislature and meetings of the organization, channels for obtaining this experience.

Membership is open to all State College students who are interested and willing to accept committee duty when assigned to them by the

chairman of the "State College Legislators." There will be no charge for membership.

The next meeting will be held at six-thirty on Monday night, November 16 in the Conference Room at the YMCA, and it is very urgent that all persons interested be there because officers must be elected and delegates to the legislature must be chosen. The State Student Legislature will convene at the Capitol building in Raleigh November 19, 20, and 21.

## Overman Is MC At AG Club Meeting Featuring Alpha Zeta Pledges

The Ag Club had on its program Tuesday night, the Alpha Zeta pledges. Charles Overman acted as master of ceremonies for a most original program. The main feature of the program was an operation, behind a sheet, on one of the pledges.

Alpha Zeta is a national honorary fraternity for agriculture students. Membership is based on scholarship, character, and leadership.

Final plans have been made for the fall term social. It is to be held Friday night, November 13 in the Frank Thompson Gymnasium.

President Ramsour appointed a committee for the purpose of revising the Ag Club constitution to fit the semester system for next year.

This committee consists of: Tommy McDaniels, Eugene Gray, and Bill Nesbit. Dr. James, Dr. Tisdale, and Dr. Warren are to act as faculty advisors for this committee.

## Old Grad Writes Successful Book

Dave Morrah of Greensboro, a 1935 architectural engineering graduate of North Carolina State College, is the author of a new book published by Rinehart and Company of New York.

"Fraulein Bo-Peepen and More Tales Mein Grossfader Told" is the subject of Morrah's book, which has been widely acclaimed by critics throughout the country. Morrah also did the illustrations for the volume.

Leon Pearson, the National Broadcasting Company's literary critic, highly praised the book and urged his listeners to read it on a recent NBC "Weekend" program.

Other critics have been equally favorable to Morrah's work.

Said Dr. A. M. Fountain of the State College English Department in a review of the book:

"Running a close second to the language in its appeal is the unexpected terminal twist that most of the stories receive. The title story, for example, indicates that the erstwhile dutiful 'Bo-Peepen,' instead of waiting sorrowfully at the empty fold at nightfall, has actually herself strayed off with one Hans, 'das sheepenherder' whom she has 'ben uppen-gemeeten mit.' And 'der reddisch herf,' after her ruggedly individualistic planting, harvesting and processing of the wheat into bread, finds not only her dinner 'gobblen' up by 'der puss und der pooch und der porker,' but herself also 'gobblen' includen der pin-fluffers."

Morrah is now vice president of Bradham and Morrah, advertising agency of Greensboro.

## CG Traffic Committee Puts 3 on Probation

The Campus Government Traffic Appeals Committee met Tuesday. A number of traffic violations were heard.

One student was put on probation and had his car sent home for a year. Two other students were put on probation for one term and had their car sent home for one term.



Pictured here are the sponsors of the annual pledge dance to be presented by the Interfraternity Council of North Carolina State College in the William Neal Reynolds Coliseum at the college Saturday night, Nov. 14, from 8 p.m. until midnight. Blue Barron and his orchestra will provide the music. Shown here are the sponsors, with their escorts listed. Top row, left to right: Dorothy Ann Swisher of Southern Pines with Robert B. Jordan, III, of Mt. Gilead, vice president of the State College Interfraternity Council and president of Sigma Alpha Epsilon; Jane Bashford of Raleigh with Frank Morgan of Greensboro secretary of the council; and Notie Vay White of Statesville with Ken Sledge of Charlotte, president of Phi Kappa Phi. Middle row, left to right: Ann Jones of Garner with Bill Barnett of Raleigh, dance committee; Gray Proctor of Marion with Larry Petty of Gastonia, president of the IFC; and Jane Cutts of Oxford with David Finley of Marion, president of Pi Kappa Tau. Bottom row, left to right: Fay Brown of Raleigh with Bud Kahn of Asheville, dance committee; Mary Stuber of Pelham, N. Y., with Guy Beloeccchi of Fairlawn, N. J., dance committee; Sally Hazen of Winston-Salem with John Gregg of Fort Mill, S. C., dance committee; and Barbara Love of Lincolnton with John Crosby of Fort Bragg, president of Pi Kappa Alpha.

## Pledges To Dance With Blue Barron

**I.F.C. PLEDGE DANCE BRINGS BARRON TO RALEIGH**  
*Phenomenally Successful Band-leader to furnish music for IFC's Quarterly Formal in the Coliseum Nov. 14*

Most of the fraternities on campus are having gala weekend festivities in conjunction with the Pledge Dance that is being held Saturday night. The purpose of the dance is to welcome the new pledges that were rushed during this term's "Rush Period."

The most outstanding event of the weekend is a formal dance which is going to be held in the William Neal Reynolds Coliseum, Saturday, November 14, from 8 to 12 p.m. The fraternity members and pledges and their dates will dance to the delightful music of Blue Barron and his orchestra. In the afternoon, starting at 4 o'clock the Barron orchestra will give a concert in the auditorium of the Textile School.

Friday night most of the fraternities are planning informal parties in their houses or in cabins around Raleigh. Also informal parties will be held after the dance Saturday night. A good time is expected to be had by all.

## ASCE Movie To Build United Nations Bldg.

The student Chapter of the American Society of Civil Engineers is sponsoring a movie which will be of interest to all of our college community. It is entitled "Building for the Nations" and deals with the planning and construction of the United Nations Building in New York.

This movie will be presented at 7:30 p.m. on Tuesday November 17 in the Civil Engineering Building Auditorium. Everyone is invited to attend.



LYLE CARRINGER

### Dairy Student Wins \$500 Scholarship

Lyle B. Carringer of Brasstown, Clay County, (above) is the first student to receive an award under a new \$5,000 scholarship plan set up at North Carolina State College by the North Carolina Dairy Products Association. Carringer, son of Mr. and Mrs. Wayne Carringer of Brasstown, was awarded a \$500 freshman scholarship and is now a student in dairy manufacturing at State College. A graduate of Murphy High School, Carringer made an outstanding scholastic record and has been active in 4-H and FFA work. The scholarship award, of which Carringer is the first recipient, is based on scholastic attainment and interest in dairy manufacturing and was established as an incentive for more North Carolina students to enter the dairy industry field.

### Delta Kappa Phi Initiates 30

Thirty leading students in the School of Textiles at North Carolina State College have been initiated into the college chapter of Delta Kappa Phi, the oldest textile fraternity in America.

The list of the new students who were honored was announced Sunday by Charles B. Tucker of Albe-Marle, consul of Delta Kappa Phi. Carol Singleton, Shelby; Charles W. Bogle, Jr., Pleasant Garden; Paul B. Smith, South Charleston, W. Va.; David Sontag, New York, N. Y.; Clarence D. Blanchard, Burlington; James B. Ingram, Parkton; Louran L. Ivey, Graham; James W. Wrape, Charlotte; Nicholas E. Spronce, Newton; Jordan C. Ploch, Normandy Beach, N. J.; Mitchell C. Andrew, Greensboro; Johnny D. McDonald, Greensboro; Thomas Alvarez, Jurez, Chih, Mexico; Douglas P. Burgess, Woodleaf; James B. Johnson, Asheville.

Robert W. Graham, Enfield; David D. Vivino, Preakness, N. J.; Everett L. Pyatt, Asheville; Peter P. Li, Kobe, Japan; Nessim Daccarett, Columbia, S. A.; Warren Woo, Hong Kong; Arthur H. Quint, Mount Vernon, N. Y.; James B. Arthur, Kinston; James H. Randall, Forest City; Charles



—Now Playing—  
**Sabre Jet**  
IN COLOR  
—starring—  
**Robert Stack**  
**Collen Gray**

### Textile Conclave November 20 and 21

A technical program featuring a wide range of topics on the textile industry and a social program will be the highlights of the fourth annual Alumni Conclave in the School of Textiles at North Carolina State College Friday and Saturday Nov. 20 and 21.

Details of the program were announced Oct. 30 by Dean Malcolm E. Campbell of the college's School of Textiles, who said all alumni and friends of the school are invited to attend the two-day event.

Following registration and a tour of the building, the meeting will open at 11 a.m. Nov. 20 with welcoming talks by Chancellor Carey H. Bostian of State College and Dean Campbell. A paper will then be presented on "An Engineering Survey of Cotton in the Canvas-Awning Industry," by G. Dent Mangum of the Department of Textile Research, State College School of Textiles.

Papers to be presented after lunch on Nov. 20 will be "Mercerization and the Luster of Cotton" by Arnold Sookne, Harris Research Laboratories; and "Quality Control in Spinning and Weaving" by A. G. Klock, Bigelow-Sanford Carpet Company. A color film on "Cotton Mechanization," produced by the U. S. Department of Agriculture, will be shown as the final feature of the afternoon program.

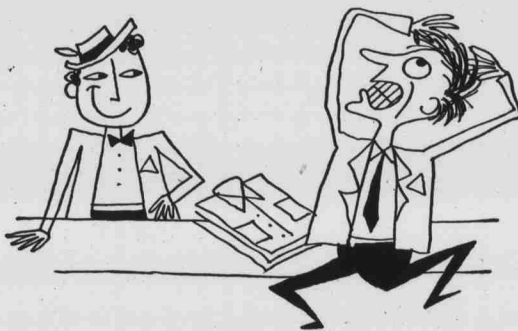
At 5:30 p.m., a social hour sponsored by the Textile Bulletin will

**WAKE CAFE**  
106 S. Wilmington St.

**Seafoods Steaks Chicken**  
**Dinner 65¢ & up**  
**Wed. Nite — Small Steak, F. F. Onion, Let., Tom. F. F. Pot. — \$1.00**

This ad presented will get you 10¢ discount on your check on Sat. & Sun.

### WHATDIDHESAY?



A very fastidious college senior decided to add a few colored shirts to his wardrobe. So one afternoon, he strolled down to the local shirt shop. "I'd like to see your smartest colored shirts," he said to the clerk.

The clerk laid several Van Heusen Vanahue Broadcloths on the counter. "These are our best sellers," he said. "They're tailored of fine, high-count broadcloth that's very smooth and luxurious. And you can take your pick of eight different collar styles—including Van Heusen's new short collars that are the rage of the college set."

"They sure look good to me," said the senior. "Good? They're terrific!" replied the clerk. "Just look at that magic sewmanship—Van Heusen's finest. Why, even the buttons are top quality, genuine ocean pearl. And Vanahue Broadcloths come in every color of the rainbow—from soft, subtle shades to rich robust tones. What's more, they're only \$3.95 apiece."

"Do you have henna color?" asked the young man. "That's just what I got finished telling you," answered the clerk. "You can have henna color you want!"

### NCS E.E. Students Tour Duke Power Co.

Forty-two seniors and five professors in the Electrical Engineering Department at North Carolina State College took part in the annual fall meeting of the North Carolina Section of the American Institute of Electrical Engineers at Duke Power Company's Bucks Plant near Salisbury today.

The entire senior class in electrical engineering attended business session of the organization and inspected the electrical equipment of the plant.

J. Baxter Campbell of Charlotte, a senior at the college, presented a paper on the "Nuclear Reactor at North Carolina State College."

Faculty members attending included Dr. C. G. Brenneke, head of the Department of Electrical Engineering; Dr. A. R. Eckels; Profs. E. G. Manning, W. D. Stevenson, Jr., and E. W. Winkler.

### Textile Bus Trip Plans Announced

Plans have been announced at the School of Textiles, North Carolina State College, Raleigh, for a student-body trip by bus to the American Textile Machinery Exhibition next April, it was stated Nov. 3 by Elliott B. Grover, head



RICHARD LEDFORD

### N.C.S. Student Wins National Honors

Richard A. Ledford of Route 3, Charlotte, (shown above) a rising senior in dairy manufacturing at North Carolina State College, has been chosen as the top student in his field in 12 Southern states and has received the Milk Industry Foundation's award. He is one of four students in the United States to be selected for regional honors this year. The award amounting to about \$250 was based on scholarship achievements and extra-curricular activities during the recipi-

(Continued on page 3)

### Pilot Training Now Open To Undergrads

For the first time since World War II ended, high school graduates are now eligible to make application for flying training, as commissioned officers, directly from civilian status.

Aviation cadets are trained to become either pilots or aerial observers: aerial observers are trained in specialties such as navigation, radar bombardment officers, electronics officers, and aircraft performance engineering officers.

Upon completion of the approximately 16 months of training, the aviation cadet (either pilot or observer) receives his silver wings of aeronautical rating, a commission as 2nd lieutenant in the Air Force with annual pay of over \$5,000.

(Continued on page 3)

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	One-way		One-way
Dallas	\$24.40	St. Louis	\$16.55
New York	10.20	Newark	9.85
Atlanta	8.20	Philadelphia	8.10
Miami	16.35	San Francisco	51.60
Richmond	3.85	Norfolk	4.35
Chicago	18.30	Washington	6.35
New Orleans	16.85	Buffalo	16.10
Seattle	54.95	Charleston	5.95
Birmingham	11.30	Montreal	19.30
		Plus U. S. Tax	

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### GREYHOUND

### M.E. Senior Attends National Frat Meet

James B. Walker of Raleigh, a senior in mechanical engineering at North Carolina State College, represented the college chapter of Pi Tau Sigma at its annual national convention in Ann Arbor, Mich.

Walker is president of the State College Chapter of Pi Tau Sigma, a national honorary fraternity in mechanical engineering.

Approximately 50 colleges and universities from throughout the nation were represented at the meeting. Tours of automobile plants and election of national officers were the highlights of the three-day program.

### FFA Primaries Held This Week

The next meeting of the Collegiate FFA will be held Thursday Night, November 12th in room 114 Tompkins Hall. All students enrolled in Agricultural Education are requested to attend this meeting.

The primary election of winter term officers will be held at this (Continued on page 5)

### DELTA KAPPA PHI—

(Continued from page 2)  
R. Newsom, Raleigh; Abraham B. Stenberg (San Jose, Costa Rica); Anthony Clama, Lethridge, Alberta, Canada; Henry M. Hughes, Shelby; Burton Haims, Brooklyn, N. Y.; and Arthur S. McVlaire, New York, N. Y.

Officers of the fraternity, in addition to Tucker, are Wallace W. West of Fayetteville, Pro-consul; Vann E. Winfree, Jr., of Fayetteville, custodian; Rolf Spoerry of Schaan Fl., Switzerland; John W. Smith of Leaksville, sergeant-at-arms; and Donel T. Kelley of Raleigh, scribe.

### Ag. Ec. Club Has Regular Meet

On November 5, the Agricultural Economics Club met for its regular meeting at 203-B Patterson Hall with Dr. Brown as guest speaker. Dr. Dorris Brown is a farm management specialist and associate professor of Agricultural Economics at State College.

The subject discussed was the agricultural outlook for North Carolina farmers in 1954. Dr. Brown's talk was illustrated with slides showing trends in some of the major factors affecting the demand for agricultural products and the current supply situation. He indicated that the outlook for 1954 is somewhat less favorable than in 1953.

He also summarized the discussion which took place in the recent meetings of representatives of beef cattle producers in Washington. There was some discussion pertaining to agricultural programs in the future.

The subject of discussion for the next meeting will be devoted to the honor system at State College, its purposes and functions.

### WILDLIFE SOCIETY—

(Continued from page 6)  
for the evening meal after which Carl Yelverton provided a movie of the "Savannah Refuge," where he worked this summer. Also soft-

ball and fishing were provided for recreation.

The members and guests present were: Mr. and Mrs. Carl Yelverton, Mr. and Mrs. Charlie Long, Dr. and Mrs. F. S. Barkalow with their daughter, Eugene Hester, Donald Baker, "Cape" Carnes, John Chapman, Bob Lewis, Gene Corriher, Dr. and Mrs. T. L. Quay, Dr. and Mrs. W. W. Hasslar, Mr. and Mrs. Gene Upchurch, Roanald Pitts, George Birdick, and Bill Murphrey.

### AIR FORCE—

(Continued from page 2)

For information on this program, or to check your qualifications for Air Force Cadet Training, without being placed under any obligations, the air force aviation cadet selection team will visit N. C. State College on 23 & 24 November 1953. They will be set up in the YMCA lobby and will be fully equipped for testing and determining qualifications for aviation cadet training.

### REGIONAL WINNER—

(Continued from page 2)

ent's first three years of college. As a part of his award, young

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**Henderson's**  
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### — FABULOUS —

Cummer Bond & Tie Sets—All Colors  
**\$4.50**

2 Corduroy Shirts For  
**\$8.00**  
One For **\$5.95**

**WERTZ'S**

Between The Griddle and The Top-Hat

Ledford recently was given an expense-paid trip to the Milk Industry Foundation's convention in Boston, Mass. He is the son of Mr. and Mrs. T. A. Ledford of Route 3, Charlotte, is a 1950 graduate of Berryhill High School, and is business manager of "Meat and Milk," a student magazine in State College's Animal Industry Department.

### FIELD TRIPS—

(Continued from page 2)

of the Yarn Manufacturing Department, who is in charge of the arrangements. "The School will be closed part of the week of the show," Grover said, "so that the students can attend the exhibition."

The plan of having the student body travel to Atlantic City by buses that was successfully used for the 1950 show will again be carried out. All juniors and seniors holding a good scholastic average, and all lower classmen who can obtain their parents' permission and who also hold a good scholastic record will be invited to make the

trip, Grover stated. Each student will pay his own way, and the cost of each will be a proportion of the actual cost of the transportation and hotel arrangements.

The students will have two full days to attend the Exhibition.

### TEXTILE CONCLAVE—

(Continued from page 2)  
be held at the Tar Heel Club, near Raleigh. Dinner will follow at 6:45 p.m.

The program on Saturday, Nov. 21, will open with tours at 9:30 a.m. Papers will then be presented on "Employee Motivation" by Dr. William McGehee, Fieldcrest Mills; and on "Solution-Dyed Staple Fiber" by William Bowman, Textile Research Department, American Viscose Corporation.

Tickets will be available for the Saturday afternoon football game between N. C. State and West Virginia in Riddick Stadium and for the exhibition basketball game by the Harlem Globe-Trotters on Saturday evening in William Neal Reynolds Coliseum.

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Across From College Tower

## How the stars got started...

**MARGE and GOWER CHAMPION** met as shy schoolkids at dancing school. Their paths criss-crossed for years as each worked hard to make a career. Finally, Gower, back from Service, "teamed up" with Marge. After months of strenuous rehearsal, they were a sensation, creating original "dance stories" for TV, movies and stage. They are now Mister and Missus.

*Marge and Gower Champion*  
FAMOUS DANCING STARS

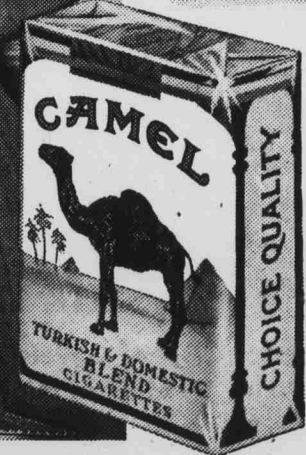


WE TEAMED UP WITH **CAMELS** AFTER TRYING OTHER BRANDS. LIKE SO MANY OF OUR FRIENDS, WE CONSISTENTLY PREFERRED **CAMELS** SMOOTH MILDNESS AND ABSOLUTELY WONDERFUL FLAVOR! WHY DON'T YOU TRY **CAMELS** ?



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## EDITORIAL COMMENT:

## THE EDITOR SAYS:

*Wolfpack Is Really Howling*

This year's Wolfpack is the best losing team we have had in many years and deserves our full support and admiration. Pitted against teams superior in the matter of reserves they have consistently held their own in a manner in which we may all take pride.

In previous home games the actions of cheerleaders and response of the student cheering section has been unenthusiastic to say the least. Since the team represents State College on the playing field we think it ought to have all the support we can give it and this must necessarily take the form of cheering them on when they are winning and up when losing.

Many compliants have been registered against the present college football system at State and elsewhere in the country and we think some changes should be made. Many people think athletes receive a disproportionate share of scholarships and grants-in-aid and we agree. But, whatever its faults, it is the system we are operating under at the present time. And we think it furnishes still another reason for giving the team moral support on the playing field i.e., we want a good return on our investment.

The last home game of the season will be played a week from tomorrow when the Wolfpack meets W. Va. We think the Wolfpack is a great team and the student body ought to come out and support them,

*Music And Drama Reviews***Liszt, Dvorak Feature Actor Claude Rains  
CU Sunday Concert To Appear Nov. 24**

On the weekly Sunday afternoon record concert, the Music Committee of the College Union will present selections by Liszt and Dvorak. The selections are as follows:

**Liszt:**  
Mephisto Waltz  
Todtentanz (Dance of Death)  
Les Preludes

**Dvorak:**  
Symphony No. 5, in E minor (from the New World)  
"Heavenly maid" though she is, music has often related adventures of the Prince of Darkness. She has told of his attempts to buy the souls of Philosophers and simple villagers with promises of worldly pleasures and power; she has described the unholy rites performed by his minions as he watches of the awesome heights of the Hartz Mountains.

Not the least of these Satanic episodes is Liszt's "Mephisto Waltz," which was completed in 1860 and was described by Frederick Niecks as "the ne plus ultra of weirdness and unbridled sensuality in the whole domain of music, and one of the most remarkable tours de force of imagination, combination, and instrumentation." The work, which carries the subtitle "The Dance in the Village Inn," is an orchestral setting of a portion of the Faust legend as recounted by the German poet, Nicholas Lenau.

According to Liszt's intimate friend and first biographer, Richard Pohl, this Dance of Death was inspired by the like-named series of engravings by Holbein. According to Lina Ramann, whose Liszt biography appeared shortly after Pohl's, its inspiration was the famous 14th-century fresco entitled "The Triumph of Death in the Campo Santo at Pisa. Both authorities are probably right as far as they go, but that is not very

(Continued on page 5)

Claude Rains, distinguished actor and successful farmer, coming to Raleigh's Memorial Auditorium on November 24th under the sponsorship of the College Union, was born in London 63 years ago. Son of a noted character actor, he served his apprenticeship in the theater from the ground up, holding successive jobs of call boy, prompter, electrician, property man, assistant stage manager, and finally star actor in London and New York.

After scoring several hits in England and Australia he came to America in 1912, only to return to Europe for World War I service in France with the London Scottish Regiment. In 1926 he appeared in the United States in "The Constant Nymph" and other plays, then joined The Theater Guild and called America his home. In 1935 he married a New York girl, Frances Propper, and in 1938 received his American citizenship at the Federal Court in Philadelphia.

Rains' stage successes have included many plays of George Bernard Shaw. He appeared in the screen version of "Caesar and Cleopatra" with Vivian Leigh. His eminent success in numerous Hollywood productions has been summarized in this fashion: "In Hollywood, Rains reigns supreme among the cinema thespians."

When Mr. Rains is not busy with movie, stage, radio and television engagements, he hastens back to the isolation and beauty of his 400 acre farm near West Chester, Pennsylvania. Here he is both manager and bookkeeper, reporting with justifiable pride that the farm is not only a picturesque homestead, but a successful business in the black.

Mr. Rains' program will include selections from Shakespeare, Tennyson, Eliot and many other famous writers. Rains' appearance in Raleigh is sponsored by the Col-

(Continued on page 5)

**It's In The Book**

I have heard that it is unlawful to park a car and fail to pull up the hand brake. Is this true? F. Y., Monroe

Yes, Motor Vehicle Manual regulations, in describing the correct procedure for parking a motor vehicle, say you must first stop the engine and then "effectively" set the brakes. Under the same regulation the law says you must turn the front wheels toward the curb when parking on a grade.

**CE Prof Gavels Joint Meet in High Point**

Charles Smallwood, Jr., associate professor of civil engineering at State College, officiated at a joint meeting of the North Carolina Sewage and Industrial Wastes Association and the American Water Works Association in High Point November 9.

Prof. Smallwood was chairman of the program committee for the annual meeting.

**Over \$171,000 In Awards Reported**

North Carolina State College Thursday announced the award of 330 scholarships and grants-in-aid valued at \$171,330.

The academic awards, Dr. York said, range from \$100 grants-in-aid to the \$1,750 Euvaldo Lodi Scholarship in the School of Textiles. Listed among the awards for the first time this year are four \$1,000 scholarships from the Smith-Douglass Company of Norfolk, Va., for four students in the School of Agriculture.

Dr. York said the average value of the scholarships awarded this school year stand at \$519.

For the first time in the 64-year history of North Carolina State College, the institution's Development Council has launched a drive for a new "Talent for Service" scholarship program, which is designed to make available a number of \$500 and \$1,000 scholarship awards. This plan is scheduled to go into effect in September, 1953, when the first scholarships are awarded.

Under the new plan, high school seniors from throughout North Carolina are eligible to compete for the scholarships. Committees have been or will be set up in all of the State's 100 counties to screen the applicants and to submit candidates for scholarships to the State College Scholarship and Financial Aid Committee.

Council Chairman E. Y. Floyd of Raleigh said the organization decided to sponsor the scholarship plan when it learned that less than one-third of the high-ranking graduates of the State's high schools attends college and that less than one-half of the technical personnel

(Continued on page 5)

**Funds Available From National Groups For Graduate Study**

The National Academy of Sciences-National Research Council has announced the following postdoctoral and predoctoral fellowship programs for the academic year 1954-1955: American Cancer Society Postdoctoral Fellowships in Cancer Research, British-American Exchange Postdoctoral Fellowships in Cancer Research, James Pickler Foundation Postdoctoral Fellowships in Radiological Research, Lilly Research Laboratories Postdoctoral Fellowships in the Medical Sciences, Lilly Research Laboratories Postdoctoral Fellowships in the Natural Sciences, Merck Senior Postdoctoral Fellowships in the Natural Sciences, National Research Council Postdoctoral Fellowships in the Natural Sciences, National Tuberculosis Association Postdoctoral Fellowships in Tuberculosis, RCA Predoctoral Fellowships in Electronics, Rockefeller Foundation Postdoctoral Fellowships in the Medical Sciences.

The fellowship program of the National Academy of Sciences-National Research Council was inaugurated in 1919, when thirteen outstanding young scientists were selected from scores of applicants. Six were appointed to fellowships in physics, and seven to chemistry. By 1922, the plan was extended to provide fellowships in medicine, and the following year the program was broadened still further to include the biological sciences. The present program is a well-rounded one and offers fellowships in the agricultural, biological, engineering, mathematical, medical and physical sciences and inter-allied fields at both the predoctoral and postdoctoral levels.

These fellowships provide special opportunities for advanced study and training in fundamental research for young men and women of unusual promise and ability. With the exception of the RCA Predoctoral Fellowships in Electronics, which are available to students who have completed one year of graduate training, all other fellowships are open to applicants who have completed all academic requirements for the Ph.D., Sc.D., or M. D. degrees.

Most of these fellowships are limited to citizens of the United States; however, citizens of Canada may also apply for the Rockefeller Foundation Postdoctoral Fellowships in the Medical Sciences and the NRC Postdoctoral Fellowships in the Natural Sciences. The James Pickler Fellowships in Radiological Research are not restricted to citizens of the United States.

Appointments will be made for one year but applications for renewal will be considered. A candidate must present evidence that he will be accepted as a fellow by the scientific adviser under whom he will study. As a rule, a fellowship applicant is expected to choose an institution or laboratory other than at which he has had most of his academic training.

(Continued on page 5)

The National Science Foundation has recently announced that it plans to award approximately 750 graduate and postdoctoral fellowships for study in the sciences for the 1954-1955 academic year. These fellowships which are open only to citizens of the United States will be awarded solely on the basis of ability. They are offered in the mathematical, physical, medical, biological and engineering sciences, including physical anthropology, psychology (excluding clinical psychology), physical geography and interdisciplinary fields.

Students studying for either their masters' or doctoral degrees are eligible for graduate fellowships at the first year, intermediate or terminal year levels of graduate study. College seniors majoring in the sciences and who expect to receive a baccalaureate degree during the 1953-1954 academic year are encouraged to apply for the awards. Individuals who have received a doctoral degree or who can produce evidence of training in a field of science equivalent to the training represented by a doctoral degree in science are eligible to apply for a postdoctoral fellowship.

The selection of predoctoral Fellows will be based on test score of scientific aptitude and achievement, academic records, and recommendations regarding each candidate's abilities. Postdoctoral applicants will not be required to take the examinations. The evaluation of each candidate's qualifications will be made by panels of scientists chosen by the National Academy of Sciences. The final selection of Fellows will be made by the National Science Foundation.

The annual stipends for predoctoral Fellows range from \$1400 to \$1800; the stipend for postdoctoral Fellows is \$3400. In addition to providing limited allowances for dependents and travel, tuition and certain required fees will be paid by the Foundation. The tenure of a fellowship is for one year and can be arranged to begin at any time after June 1, 1954, but normally must not be later than the beginning of the 1954-1955 academic year at the institution of the Fellow's choice.

In order to be considered for the 1954-1955 academic year, postdoctoral applications must be received in the Fellowship Office of the National Research Council by December 15, 1953 and graduate applications by January 4, 1954.

Detailed information and application forms may be secured from the Fellowship Office, National Research Council, 2101 Constitution Avenue, N. W., Washington 25, D. C.

**Radio Club To Meet**

The Amateur Radio Club will hold a meeting November 17, at 7:00 p.m. in room 6, Winston Hall. All interested persons are invited to attend the meeting.

**TECHNICIAN**

Offices 137-139 1911 Bldg.

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Bus. Mgr. . . . . Jerry Jones  
Ass't. Bus. Mgr. . . . John Puckett

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**ATTENTION  
FRESHMAN****Freshman Election Thurs-****day Nov. 19, 7:00 P.M.****PULLEN HALL**

# Physics Head Elected Oak Ridge Director

Dr. Clifford K. Beck, head of the Physics Department at North Carolina State College, has been elected to a three-year term as a new member of the Board of Directors of the Oak Ridge Institute of Nuclear Studies.

The N. C. State professor, who is in charge of the college's nuclear reactor, was one of four new directors chosen at the annual meeting of the Institute's council in Oak Ridge, Tenn., last week. The Board is composed of nine members.

Other new directors who were elected along with Dr. Beck are Dr. John R. Dunning, dean of engineering at Columbia University, New York; Dr. Walter Johnson, director of the Chemistry Division, Argonne National Laboratory, Chicago, Ill.; and Dr. C. L. Larsen, administrative director, Oak Ridge National Laboratory, Oak Ridge, Tenn.

Dr. Paul Gross, vice president of Duke University, is president of the Board of Directors of the Oak Ridge Institute of Nuclear Studies, which operates under contract with the U. S. Atomic Energy Commission and is composed of 32 major Southern colleges and universities.

As a representative of North Carolina State College, Dr. Beck has served as a member of council of the Oak Ridge Institute of Nuclear Studies for the past four years. He will be succeeded on the council by Dr. C. G. Brennecke, head of the Department of Electrical Engineering at North Carolina, head of the Department of Electrical Engineering at North Carolina State College, who will represent N. C. State in this position. The council is composed of 30 members representing the various institutions which hold membership in the Institute.

Dr. Brennecke joined the N. C. State faculty in 1945 after serving as a faculty member at Lehigh University. He was educated at Columbia University and New York York University.

With the election of Dr. Beck as a new director and the appointment of Dr. Brennecke as a new council member, North Carolina State College will have two representatives in top governing positions of the Institute, which provides member colleges and universities an opportunity to participate in and utilize the vast research facilities at Oak Ridge.

State College was a charter member of the Institute and has been active in the work of the organization since its founding.

While a member of the Oak Ridge staff and prior to coming to State College, Dr. Beck took part in the movement which culminated in the formation of the Institute. Dr. Frank P. Graham, former president of the Consolidated University of North Carolina, also was active in the Institute's founding and served as its first president.

Two additional institutions of higher learning joined the Institute at the council meeting last week. They are Southern Methodist University and Tuskegee Institute.

Dr. Beck, the new director of ORINS, is a native of Rowan County, was a key figure in the nation's atomic development program during World War II and since, and pioneered in the establishment of State College's nuclear reactor—the first college-owned reactor in the world, the first to be devoted exclusively to the peacetime development of the atom, and the first to be open, without restriction, to the public.

He was educated at Catawba College, where he received his B.A. degree in 1933; Vanderbilt University, where he obtained his M.S. degree in 1940; and the University of North Carolina, where he earned his Ph.D. degree in physics in 1943.

**FFA—**  
(Continued from page 3)  
time. This is your club so come on

out and support the man of your choice for the different positions. A scrap book on the activities of the FFA has been placed in the Ag. E. library. Go in sometime and look it over, and if you have any material pertaining to the chapter place it in the scrap book.

### N.A.S.—

(Continued from page 4)  
Applications for all of these 1954-1955 programs must be forwarded to the Fellowship Office and must be postmarked on or before December 10, 1953.

Because the postdoctoral fellowships are available in a large range of subjects and programs, potential applicants are encouraged to write to the Fellowship Office, National Research Council, stating their field of specialization, age, and study plans so that appropriate informative material may be sent.

Information and application blanks may be secured for any of the programs by writing to the Fellowship Office, National Research Council, 2101 Constitution Avenue, N. W., Washington 25, D. C.

### SCHOLARSHIPS—

(Continued from page 4)  
needed by the State's industry and agriculture is being trained and

supplied in North Carolina today. The college, Chairman Floyd said, is establishing the new scholarships "as an incentive for many more promising high school graduates to continue their education." Dr. York said the academic awards this year include \$95,800 in athletic grants-in-aid and \$75,530 in undergraduate scholarships.

For the first time in the history of the college, the administration of all State College programs of financial aid, including scholarships, loans, self-help employment, and grants-in-aid, is being handled by one committee. The group is known as the State College Committee on Scholarships and Grants-in-Aid and is headed by Dr. York, chairman.

### CLAUD RAINS—

(Continued from page 4)  
lege Union Theater Committee. His dramatic readings will begin at 8:00 p.m. in the Memorial Auditorium. Admission will be by student registration card (dates free, of course), faculty and staff by College Union Membership Card and tickets which are on sale for \$2.00.

### J. F. LEE—

(Continued from page 1)  
his M.S. from the Harvard Graduate School of Engineering.

He is a war veteran, has worked as a practicing engineer for a Boston engineering firm and has taught mechanical engineering at the University of Maine. He has been at State College since September, 1952.

Although this is his first book, Lee is the author of many papers on turbines.

He is a member of ASME, AAUP, ASEE, SAME, and Sigma Xi, Harvard Engineering Society and the Maine Association of Engineers.

### UNION MUSIC—

(Continued from page 4)  
far, for this composition, unlike Liszt's "Battle of the Huns," does not pretend to be a musical translation of any particular work of visual art. It was many years in the making, and it parallels with equal force any and all of the countless Dances of Death produced by medieval painters, engravers, sculptors, and poets.

Liszt's symphonic poem, "Les Preludes," was the third of twelve such works he composed during his twelve-year stay at Weimar from 1849 to 1861. These years were extraordinarily rich ones, both for

composition and Liszt's unflinching interest in the music of other composers. If a list were to be made of the musicians in whom Liszt took an active, personal interest, there would be a few of the important nineteenth-century names omitted. It was partly to advance the works of these new composers that Liszt accepted the position of director of the Weimar court theater in 1849, and the resulting artistic collaboration, whether direct or indirect, served to sharpen his own appetite for original composition.

It is difficult to realize today, when Dvorak's "New World" Symphony is an integral part of the orchestral repertoire, that it once created a musical tempest international in scope. The "Symphony No. 5 in E minor" had been written in America and the entire issue revolved about the musical content of the work and its use of Negro folk songs and Dvorak's own comments on the future of music in America.

This concert will be held in the Peele Hall Lounge, Sunday, November 15, at three o'clock p.m. Come on out and enjoy an afternoon of easy listening of the high fidelity sound system that is in the Lounge.



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# the Technician SPORTS

## Through The Keyhole

LEONARD A. BINDER Sports Editor

Last week the N. C. State Wolfpack journeyed up to West Point to play Army in a game of football which to many of the so called experts was to all intense and purposes going to be a run away victory for the Kaydets. The contest took place on a field which was a virtual quagmire of mud and ice. Going into this game Army had only lost once, while the Wolfpack had in turn only come out on the long end of the score one time in five previous games they had participated in. To make the game appear even more one-sided, Army had over forty men on its squad while the Wolfpack made the journey north with only a team composed of twenty-six football players. Yes things looked black for the North Carolina team as the opening gun was at hand. State kicked off to Army and the alert Wolfpack defense immediately took advantage of a mental lapse by an Army player by recovering their own kickoff which had been touched by a West Point player making it a free ball. State, however, could not move the ball in their series of downs, and was forced to punt. The Kaydets took possession of the pigskin on their own thirty yard line.

Then came a play which would have broken the hearts of a less courageous team. On the first West Point play from scrimmage, Pete Vann, the Army passing star, heaved one of his specialties forty yards down field to one of his mates who had gotten behind the State secondary and the player ran the twenty remaining yards over the Wolfpack goal unmolested. The play covered sixty yards in all and having also made good the extra point attempt, the "Black Knights of the Hudson" led the Wolfpack 7-0 early in the first quarter. However, the dead-game N. C. State gridders were far from a beaten club. After a subsequent exchange of punts, the Wolfpack team scored with lightning-like force. Eddie West, the great soph. quarterback, gathered up a punt on his own thirty and went the rest of the way untouched for as pretty a six points as you will ever want to see scored in a football game. The extra point was good and the contest was tied at 7-7.

It remained this way until the middle of the second quarter when the powerful Army ground attack began to take its toll on the State line. The Kaydets scored on a plunge at the line and took the lead again 13-7. This was the way the score ended at the half.

In the third quarter, the Wolfpack missed a chance to tie the score when a pass was dropped on the Army five yard line to curtail a State drive which had carried them deep into Army territory. In the last period the victors pushed over two quick touchdowns on the men from Raleigh and the final score read West Point 27, N. C. State 7. However, outstanding Wolfpack gridders like Eddie West, Harry Lodge, Ed Mazgaj, Don Langston, and Billy Teer made the contest close all the way and the gridders from State College certainly left Michie Stadium last Saturday afternoon the recipients of many compliments from the football fans there, not only for their gameness and determination but also for the football savvy which they displayed on the gridiron during the afternoon.

## Football Across The Nation

By Mike Jacobus

Top teams in the nation seven weeks in a row is the record of the Fighting Irish of Notre Dame. The Irish hold a substantial margin over the second place Maryland Terrapins. Illinois, the team that was not even mentioned in pre-season ratings is ranked third.

The teams and their points are as follows:

Notre Dame	1159
Maryland	1034
Illinois	919
Michigan State	741
Georgia Tech	650
Oklahoma	591
UCLA	467
West Virginia	455
Baylor	402
Texas	240

These are the ratings released by the United Press and compiled by the leading newspaper reporters and broadcasters across the country. There seems to be only one large bit of discrepancy in the listings. West Virginia collected 11 votes for top team in the nation. Rumor has it that the writers in the state have banded together to be sure that the Mountaineers remain high on the list. In this manner the school receives unwarranted publicity and it seems that this is an unfair method of getting it.

## Standings Close In Fraternity Play

By Dick Rudikoff  
Football League Standings

Section 1		
Section	Won	Lost
Sigma Alpha Epsilon	6	0
Sigma Phi Epsilon	3	1
Sigma Pi	2	2
Phi Epsilon Pi	0	6
Section 2		
Sigma Chi	6	0
Phi Kappa Tau	3	2
Alpha Gamma Rho	2	3
Theta Chi	0	6
Section 3		
Pi Kappa Alpha	4	0
Sigma Alpha Mu	2	1
Pi Kappa Phi	1	3
Kappa Sigma	0	3
Section 4		
Sigma Nu	3	0
Tau Kappa Epsilon	2	1
Kappa Alpha	2	2
Lambda Chi Alpha	1	2
Farm House	0	3

Pi Kappa Alpha scored a touchdown in the last quarter to defeat an inspired Pi Kappa Phi team 7 to 0. It was Kennedy who was the hero as he intercepted a pass and ran 20 yards for a touchdown. A Lassiter to Crosby pass was good for the extra point. Goldner was a standout on offense and Kern on defense for P.K.P.

Sigma Alpha Mu won a close victory over Kappa Sigma by the margin of 3 first downs to 2. The Gaier to Weiss pass combination clicked for completions time and again but a stout Kappa Sigma line headed by Thomas prevented them from scoring.

Sigma Nu vanquished Kappa Alpha 13 to 0. Honeycutt and Davis were the key players involved in the victory with end Crummer also supplying some nice catches.

Sigma Chi virtually walked all over Pi Kappa Tau as they romped to a 38 to 0 victory.

Volleyball League Standings		
Section 1		
	Won	Lost
Sigma Nu	4	1
P.E.P.	5	1
P.K.T.	1	2
Theta Chi	0	6
Section 2		
P. K. A.	4	0
S.A.M.	3	1
S.A.E.	2	2
T.K.E.	0	6
Section 3		
Sigma Chi	4	0
K.A.	3	1
P.K.P.	0	3
Kappa Sigma	0	3
Section 4		
A.G.R.	3	1
Lambda Chi	2	1
Farm House	2	1
S.P.E.	2	2
Sigma Pi	0	4

Phi Epsilon defeated Phi Kappa Tau in the best two out of three volleyball games. After taking the first game 15 to 5 they dropped the second 15 to 7. The fine playing of Smigel and Calderon sparked

(Continued on page 8)

## West's Play In Army Game Lauded

You probably won't find the name of Eddie West on any All-America teams when the current football season is history, but few of those who'll be selected will have any better record.

West, a 195-pound, 6-2 sophomore from Alexandria, Va., has been the bright spot in a losing cause for North Carolina State's Wolfpack this year. He's just about the coolest customer under fire in the Atlantic Coast Conference.

This week West faces another big assignment, he'll lead his underdog Wolfpack against the heavily-favored Pittsburgh Panthers at Pittsburgh, Pa.

Any other 19-year-old youngster might find the job this week more than he could handle, but Mr. West has faced the tough ones before and usually has come out with his share of the praises.

Last week a half-dozen writers covering the State-Army game at West Point, N. Y. called West "the best player on the field" and others sang his praises just as loudly.

Few quarterbacks in the nation can boast West's playing time. Of a possible 420 minutes in seven games, West has been the Wolfpack quarterback for 416 minutes. He went the full distance against Army and George Washington and was on the sidelines for less than a minute against William and Mary and Wake Forest. He's taken a rough physical beating from every State foe, but has always bounced back for more.

Already the professional scouts are looking at West and at least four teams have talked about se-

lecting his services when his class graduates in June 1956.

But West still has two full seasons of competition remaining at State and before he's through he'll likely re-write every offensive record established at the West Raleigh institution.

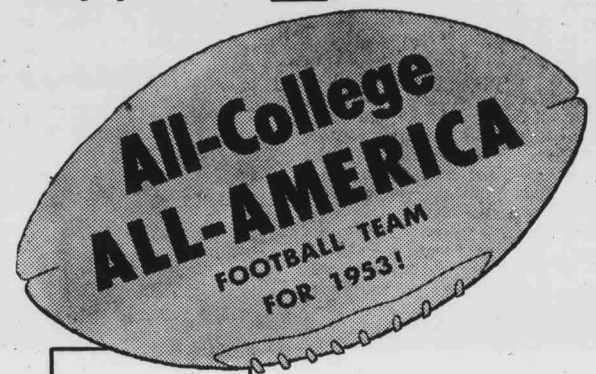
West is mostly recognized for his passing ability, but the all-around play of the State star is outstanding. Last week he booted the pigskin 10 times for a 36.5 yard average and his 67-yard punt return gave the Wolfpack its only score in a 27-7 loss to Army.

Eddie's name won't appear on any All-America's this year, but you can bet that he'll be one of the nation's greatest before he's finished his playing career at N. C. State.

## Fraternity Bowling In Full Swing

With bowling under a full head of steam we find several outstanding teams among the 14 participating fraternities. The best teams this week were P.K.A. with a six game total of 2,991 pins, Sigma Nu with a total of 2,727 pins, and Phi Epsilon Pi with a total of 2,869 pins. P.K.A. had a team high single game of 537 while Sigma Nu was next with 527. The individual high single games were made by West of Sigma Nu with 135, Jenkins from S.P.E. with 134, and Maness of T.K.E. with 128.

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## Leopold Wildlife Society Holds Fall Outing Saturday

By Jerry Armstrong

The Leopold Wildlife Society had their fall outing last Saturday from 1:30 until 9:00 A.M. at the Picnic grounds in one of the areas in Crabtree State Park. Most of the members were present and several guests.

The outing had a barbecue dinner (Continued on page 3)

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## THE Dorm Corner

By Jerry Armstrong

The upset game of the volleyball season came last week when the Berry "Huskies" defeated the "Big Boys" from Syme No. 2 in two straight games, 15-12 and 16-14. This was the deciding game for the clinching of the volleyball championship for Syme, but this loss now gives both teams a tie for first place honors with four wins and one loss.

Van Stanfield stole the entire show for Berry as he "spiked" the Syme team's defense "to death." Stanfield's efforts enabled Berry to get revenge over the only team in three years to be victorious over Berry in volleyball league action. "Spike" Larson, Berry's other star had to retire after the first game because of a leg injury, but a combination of Kurdi, Godfrey, and Jones made up for the loss.

The strong team from Verville defeated Bagwell No. 1 team in fine fashion by racking up 15-8 and 15-10 wins last week. Verville, last year's volleyball champions, got into trouble only once during the second game, but the Vets pulled through to take the match 15-10. Harold Lowe, John Hamme, Fred Williams, Scott, Kilian and McGuire were outstanding men for the "Dragnets" in spite of the loss.

Turlington started their match with Welch in slow style, but then Eudy, Gaddy, and Wood started the ball rolling for the Turls. Both games were won by the boys from Turlington No. 2, 15-7 and 15-10.

Owen No. 1 had their hands full with the boys from Tucker No. 2. Owen took the first game 15-11, dropped the second 17-15 and went on to take the third one 17-15 to take the best two out of three games. Roland, Smith, Wagner, Woodside, Breeze and Walker were outstanding for the Tucks.

### The Test Of The Gridiron

Causby's Syme No. 2 boys took one of the hardest fought games of the season from Alexander No. 2 on forfeit. Outstanding players for Syme were the members of the team.

Vaughn's Owen No. 1 lads took advantage of the Syme No. 1 team to defeat them by scoring more points than they did, Owen scored six points to none for the Symies.

Tucker No. 1 lost their game last week to a determined bunch of Welch players 13-0, but it seems the Welchers wanted to win too much as they played some ineligible players during their victory. This loss would eliminate the Tucker team from league play.

Berry capitalized on several tricky pass plays, an intercepted pass, and a free ball to down Bagwell No. 2 18-0. Bert Weeks was the standout for the "Huskies" as he scored two times for the Berry-men. "Hawkeye" Santoli also added an offensive spark when he scored on a recovered "free ball" kickoff. Other standouts for the "Huskies" were: John "the Rhino" Kirkman, Holt, Peeler, and Jack "the ole reliable" McDade.

Bagwell No. 1 "Dragnets" took the one-sided victory of the week when they took the Alexander No. 1 boys for a 26-0 ride. The victory came from the outstanding playing of Gibbs, Adcock, Noah, and Colie. This gave Bagwell a record of four wins and no losses. This win enable the "Dragnets" to take undisputed championship titles over Section four.

### The Fight On The Big Ping Pong Table, Tennis

The only recorded tennis match last week was one between Syme No. 2 and Bagwell No. 1. Bagwell took the doubles match on forfeit and won the singles to take an undisputed match.

### Killing Of The Pins

Bowling continued to move along smoothly last week with Berry and Becton No. 2 taking the lead in

League No. 2 and Bagwell No. 1 took the lone lead in League No. 1. All three teams have perfect records of 6 wins and 0 defeats.

Berry took their second straight match by downing Bagwell No. 2 three games, 501-484, 462-458, and 458-412. Jerry Armstrong was high man for the "Huskies" again this week with a three game average of 100 and Stubbs for Bagwell came through in fine style with one game of 144 and a three game average of 104.

D. Womble and R. Vinson combined over 100 game averages for Syme No. 2, but this was still not enough to stop the chargers of Bagwell No. 1, as they took all three games of the match. Pearson was the standout for the Bags as he averaged over 100 a game. The

totals were: 478-424, 476-454, and 446-435.

Tucker No. 1 and Vargo defeated the lads from Becton No. 1 two out of three games, 497-476, 476-523, and 449-449 (won by total match pins). Vargo was high for Tucker with a three game average of 114 and Fleming for Becton with 113 for three game average.

Vaughn and Crutchfield combined forces for Owen No. 1 to down

Turlington No. 1 the best two out of three games to take the match. Walls and Drye were the big guns for the Turls. Game totals: 334-361, 373-349, and 362-337.

Becton No. 2 sparked again by Terrel and Eason easily put their three games "on ice" as both men averaged well over 100 a game. They defeated Syme No. 1, 421-335, 376-370, and 378-343.

## Attention; N. C. State Students

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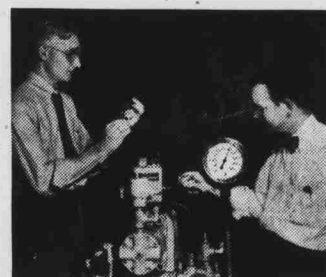
Making new products in large amounts, devising new processes, and improving old ones—such problems are the job of Design and Development. An example was the development of a large-scale process for making "Orlon" acrylic fiber starting from small laboratory samples of polyacrylonitrile.

Quantity production of polymer was only a beginning. A whole set of new and unusual problems arose in spinning the fiber, because polyacrylonitrile decomposes before it melts, and it dissolves only in high-boiling solvents.

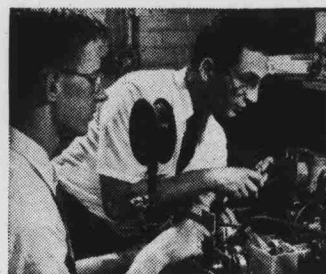
A team of Du Pont technical men—chemical and mechanical engineers, instrumentation specialists, metallurgists, and materials handling experts undertook to find a solution. Here are a few of the problems they met:

1. Solve problems in heat transfer and fluid flow arising from the fact that the spinning solution must be blanketed with inert gas to prevent fire hazards.
2. Design a system for controlling the temperature of the viscous spinning solution within  $\pm 0.5^\circ\text{F}$ . at hundreds of points in the plant.
3. Design new mechanisms for winding yarn at high speed without any deviation in yarn tension.
4. Design air conditioning and ventilating systems to remove fumes from specific spots, but still allow easy access to all areas.

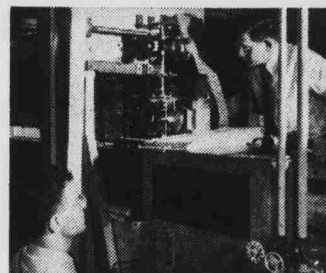
Among Du Pont's many research and engineering activities, Design and Development jobs provide great opportunity for the knowledge, ingenuity, and teamwork capacities of men in a great variety of technical fields.



The characteristics of a super-pressure pump, designed by Du Pont engineers and made in Du Pont shops, are studied by Ralph C. Grubb, B.S.M.E., Tennessee '51, and Paul D. Kohl, B.S.M.E., Purdue '46.



Albert Rand, B.S.M.E., M.I.T. '50 (right) develops controls for chemical equipment.



Carl Hellman, B.S.Ch.E., Syracuse '50, and J. M. McKelvey, Ph.D.Ch.E., Washington '50, search for new ways to coat plastic on wire.

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## State Ready For Pittsburgh Panthers

Despite six losses in seven games to date, N. C. State's Wolfpack still rates as a team that can cause the big boys trouble—for further proof just ask Coach Earl Blaik's Army Cadets.

True, State suffered defeat No. 6 last week by 27-7 at the hands of the Black Knights of the Hudson, but the issue wasn't decided until the final quarter and the Wolfpack was threatening to go ahead late in the third period with a drive that carried to the Cadet 16.

This week State finds itself against another heavily favored foe—The Pittsburgh Panthers in a game slated for Pittsburgh, Pa. Pitt will be favored by no less than four touchdowns and the Wolfpack can call it a morale victory if the score is any less.

But the Wolfpack isn't a team to go down without a fight. They'll have all their guns ready this week and while the caliber of firearm may not match that of the Panthers, such stalwarts as Quarterback Eddie West, fullback Don Langston and the rest of the State crew will go all-out to win.

Last week the State outfit pulled a new trick out of the bag by using a number of plays from the short-punt formation, sending West back into the deep spot and using Langston and Halfbacks Paul Smith and Bill Teer on the flanks. Mixing this formation with their regular split-T attack the Wolfpack moved down to Army's 16 before the Cadets finally found a defensive stopper.

West, whose 67-yard punt, return produced the 'Pack's only score last week, is just about as versatile player as any team in the Atlantic Coast Conference can boast. He went the 60-minute distance against the Cadets last Saturday and can be counted on for another full-time job this week. He was rated "the best player on the field" last week by many writers staffing the Army-State scrap.

With Langston to supply the ground-gaining punch down the middle and a pair of hard-running backs in Paul Smith and Bill Teer to round out the starting combination State can be expected to give the Panthers of Pitt a busy afternoon this week-end in Pitt Stadium.

The State line remains intact for the Pitt encounter with Harry Lodge and Henry Brown at the ends, Al D'Angelo and Ed Mazgaj at the guards, Ken Urgovitch and C. M. Price at the tackles and Dick Tonn at center.

## State Gridders Improving Fast

N. C. State's Wolfpack may be down as far as season's records are concerned, but no one had better count the charges of Coach Horace Hendrickson out before the final whistle.

For the last two weeks State has bowed to superior teams, losing 7-6 to William and Mary and 27-7 to Army's Cadets, but on each occasion the Wolves have had their moments before finally losing. This week State faces another giant-size task in the Pittsburgh Panthers at Pittsburgh and again State is tabbed to lose by at least four touchdowns.

But the fighting spirit of the Wolfpack is not dead and Coach Tom Hamilton's outfit may find that it will not pay to take State lightly.

Quarterback Eddie West, called last week "the best player on the field" by several writers covering the State-Army game, will carry the brunt of the Wolfpack attack against Pitt. West, a 195-pound, 6-2 sophomore, has consistently been one of the best offensive backs in the Atlantic Coast Conference this week. His passing has been a dangerous State weapon and last week he returned an Army punt 67-yards to pull the Wolfpack even

with the Cadets at the end of the first period 7-7.

With West is Fullback Don Langston, a 198-pound junior from Lexington, Ky. Langston is both a powerful runner and a dangerous pass receiver. He rambled some 35-yards against Army last week to the Cadet 16 after catching a toss from West.

Two other State backs have also been improving consistently. Bill Teer, a converted fullback, holds down the right halfback slot and Paul Smith, a converted end, is the left halfback regular. Teer's defensive play has already brought him considerable rave notices and Smith tallied State's only score two weeks ago against William and Mary.

Up front the State line will have numerous standout players, but they'll be heavily out-weighted by the Pitt line. Guard Al D'Angelo of Greensburgh, Pa. is rated as the best offensive blocker to attend State in many years and along with

Guard Mazgaj, a 200-pounder from Lackawanna, N. Y., gives the Wolfpack two fine linemen. Other probable starters against Pitt include Ken Urgovitch and C. M. Price at the tackles, Harry Lodge and Henry Brown at the ends and Dick Tonn, center.

### FRAT INTRAMURALS—

(Continued from page 6)

them to a 15 to 1 final victory.

With Van Horn and Cocke leading the way, Sigma Chi swept two straight victories from Pi Kappa Phi 15 to 1 and 15 to 6.

Kappa Alpha narrowly won from Kappa Sigma by scores of 15 to 4, 15 to 17, and 15 to 11. It was Miller from K.A. and Thackston from Kappa Sig who were the outstanding performers.

Alpha Gamma Rho took two victories in a row over Sigma Phi Epsilon. The scores were 15 to 10 and 15 to 10. Patterson from A.G.R. and Yoder from S.P.E. spiked brilliantly for each team.

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