

# The Technician

North Carolina State College's Student Newspaper

Vol. XLVI, No. 32

State College Station, Raleigh, N. C., Monday, Dec. 4, 1961

Four Pages This Issue

## Wolfpack Opens With Win Over Vols



Jon Speaks, who led the Wolfpack scoring with 20 points, is shown leaping with perfect form to add two more points to his credit. State showed overall good ball handling in defeating Tennessee 71 to 64.

## Lampe Announces Retirement As Dean Of Engineering

By Bill Jackson

John Harold Lampe, Dean of the School of Engineering, has announced his plans for retirement in June.

Dean Lampe, who on Friday celebrated his 65th birthday, plans to relinquish on June 30 his administrative duties as head of State College's largest school, boasting an initial enrollment this fall of almost 3500 students. No successor to the post has yet been named.

Lampe, who received three degrees in electrical engineering from Johns Hopkins University, has served State College for 16 years as a dean, arriving in Raleigh in 1945. Prior to his coming, he had been head of the

Electrical Engineering Department and later Dean of Engineering at the University of Connecticut. His career in teaching began in 1919 at his Alma Mater, where he moved from instructor to Associate Professor of electrical engineering.

Dean Lampe commented on the possibility of his re-

"I think that my activities and my viewpoint could help them along in this modern world of change. My dedication has been to work on behalf of students; that part of my career is past. Now I'm looking forward to the future."

"It's a lot like playing chess," Dr. Lampe continued, "It becomes impossible to learn about new things without participating. I would tell the students of today not to listen so much —to try things instead. First attempts may be wrong, but real learning has taken place."

Dean Lampe indicated that if he were to remain at State, he would like not only to teach but also to provide leadership in semi-conductor and energy conversion research. Other possible future activities for him include his current consulting

work with the higher education development organizations in neighboring states and with the Western Electric Company graduate training program.

"I wouldn't mind going fishing once in a while, either," Dr. Lampe quipped.

The School of Engineering at State has undergone many changes since Dean Lampe's arrival in 1945. The staff of the school and the training program they are carrying out, the dean said, have received acclaim from many parts of the country. While Lampe has served as dean, the school has been accredited and has instituted an extensive graduate program.

"I'm proud of this group and its accomplishments," Dean Lampe stated. "Whenever the top engineering

(See LAMPE, page 4)



Dean J. H. Lampe

## Polish Dancers Slated Wed.

A winner of the coveted Gold Medal at the Brussels World Fair will perform on the State campus Wednesday night at 8:00 p.m. in Reynolds Coliseum.

"Mazowsze," the world-famous dance company, regarded as Poland's finest, will present the fourth presentation in the current "Friends of the College" series.

The dance group, more than

100 strong, has given over 100,000 shows in nearly all the countries of northern Europe.

The dancers are accompanied by a full symphony orchestra. The group uses some 700 costumes, the heaviest of which weighs

16 pounds. Approximately 200 trunks are needed to transport the colorful costumes from place to place.

Two of the selections the group will give in Raleigh are the dance "Oberek" and the "Cuckoo," a folk song.

maining at the college in an instructive capacity; he presently holds the rank of Professor of electrical engineering. "In a way, leaving administrative work," Lampe stated, "could aid me in realizing an ambition—and that is the chance to work more closely with students in electrical engineering.

## 'Twas Banquet Time Sunday At CU-Soviet

A unique dinner meeting was held Sunday night in the College Union. The differences were that it was held in honor of six Soviet men and that it lasted for more than five hours.

The Soviets are touring the United States as a part

of a larger exchange program designed to improve understanding between the two nations.

The visitors were Miron Kiselev, Vyacheslav Kudin, Yuri Kialyakov, Rais Mugaev, Shalva Leyhara, and Aleksandr Guskov.

A more detailed article on the meeting will appear this week in another edition of The Technician.

## Ag Foundation Meets

The North Carolina Agricultural Foundation held its annual meeting Saturday, in Williams Auditorium.

only; not from appropriations from the Legislature.

Dean James, of the School of Agriculture, gave a report on the teaching, research, extension, and public service programs that the Foundation supports to the tune of approximately \$200,000 a year. These funds come from private organizations or individuals

## NCS Honor Code Board Meets, Suspends Student

A student was suspended from State College during last Thursday's meeting of the Honor Code Board.

In its only case of the night, the Board deliberated the case of a student charged with plagiarism by his English professor. The instructor reported that the student, in preparation for a term paper, turned in a

set of note cards which were not his own work.

The student was suspended from school until the beginning of the 1962 spring semester, and a record of the trial and sentence was placed in his permanent file in Holladay Hall.

Merrill Leffler, chairman of the Honor Code Board, stated that, under the Honor Code, the act of plagiarism in a humanities course is no less serious than cheating on a quiz or lab report in a technical course."

## Top Cadet Officers From Wake Forest To View MS Drill

Top Wake Forest Cadet Brigade officers will visit State College Tuesday, December 5.

The four officers from Wake Forest will include the Pershing Rifle company commander, and three Battle Group officers. The officers will inspect the Cadet Brigade Staff and take a tour of the drill field during drill. Platoon competition will come under particular observation of the officers. The visit will be primarily to exchange ideas and practices of the two schools.

Dean J. J. Stewart, Col. Merriam, Col. Roberts, Capt. Strawn, and Cadet Col. Jones will join the Wake Forest officers for lunch in the College Union after drill.

## Christmas Concert Set For Friday

The State College Symphonic Band and Glee Club will present their annual Christmas Concert on Friday, December 8, in the College Union Ballroom.

In addition, the Yuletide participation of the Music Department this year will include an appearance by the Glee Club on Channel 5 television on Christmas Eve. The performance, presented by video-tape, will feature several selections of appropriate Christmas music.

In these and many other ways, the Music Department renders service throughout the college community. In the absence of Robert A. Barnes, the depart-

ment is now headed by J. Perry Watson. Mr. Watson has recently been elected to the Leblanc Music Educators' National Advisory Board. This group is composed of outstanding music educators throughout the country and sponsors important projects concerning the field of music education. He is also the conductor of the State College Glee Club and Fanfare Band.

A new feature of the Music Department this year is the ensemble which provides music for Leazar Hall and for the home basketball games. This group presents an hour of dinner music each Wednesday evening from 5:30 until 6:30.

## Realistic Artwork Is Sold In CU



"Doesn't look like anybody I know." This painting (minus the legs) and the surrounding art objects are some of the many that will come under the auctioneer's gavel tonight at the annual School of Design Art Auction at the CU Ballroom beginning at 8:00 p.m.

## Campus Crier

A meeting of the American Institute of Industrial Engineers will be held Tuesday at 7:00 in the College Union Theater. A representative from the industrial engineering department of Owen-Mathieson Chemical Corporation will be the guest speaker.

The group picture for the Agromeck will be taken. Coats and ties are required.

All children of State College students and faculty and staff members having membership in the College Union are invited to a Christmas party on Saturday, December 9. The party will be given by the College Union Hospitality Committee in room 256-258 from 10:00-11:30 a.m. A cartoon movie will be shown, games played, and refreshments served.

The Forestry Club will hold its monthly meeting Tuesday night at 7 p.m. in Kilgore Hall. Pictures for the Agromeck will be taken at this time. All members are requested to wear a coat and tie.

The American Society of Mechanical Engineers will meet Tuesday, December 5 at 7 p.m. in Broughton 111. Mr. R. R. Slaymaker, consulting engineer for the (See CRIER, page 4)

# Team Wins; Fans Lose

It made headlines in the sports section, of course, The front page of the newspaper carried the final score in bold face type. . . Duke 37, Notre Dame 13.

The important part of the story wasn't even mentioned.

Duke's football team, criticized and scorned at times during the season, made an impressive showing in Durham Saturday; the statistics say they even set a school record in the forward passing department. Some of the Duke supporters, however, disgraced themselves.

The background for this story goes all the way back to South Bend, Indiana, in 1920. A young man named George Gipp made headlines, as he and his teammates led the Notre Dame football squad to a string of impressive victories. The success of team, underrated at the beginning of the season, was due to the wonderful talents of "The Gipper."

Gipp became very ill one week and, under orders from the school physician, was confined to the Notre Dame infirmary. A big football game was coming up that Saturday, and Gipp knew how his absence would affect the team. He sneaked away from the infirmary and traveled on his own to the town where the game was being played. Arriving at stadium after kickoff, Gipp reported to Coach Knute Rockne, assured him that his health was fine, and won the game for the Fighting Irish.

George Gipp collapsed in the locker room and died shortly thereafter in the presence of his coach.

The climax of the Notre Dame season that year was the game with heavily-favored Army. With tears in his eyes, Coach Knute Rockne told his team to win the game for The Gipper. The inspired Irish practically wiped the cadets off the gridiron.

The story of this man and his devotion to something he believed in has been held sacred by sportsmen all over America ever since.

Except Saturday.

Duke, according to the sportswriters, was in complete of the game the entire second half. Was this enough for some of the more "sophisticated" Duke fans? Evidently not . . .

Cries of "Win it for de gipper!" and "ray, CA—NOOT!" rang out in derision. Any true sportsman would lower his head in shame at such an outburst.

Maybe it's making mountains out of molehills . . . although the Notre Dame fans, who traveled all the way to Durham by bus, would probably disagree. It really hurts to see something which anyone regards as sacred being used for the entertainment of drunks.

—WMJ

## The Technician

Monday, December 4, 1961

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Assistant News Editors Cora Kemp, Grant Blair	Sports Editor Richie Williamson
Photography Frank Justice	Reviewer Tim Taylor

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## Crit

A tiny, rippling brook flows among its rocks to a bright, clear, icy mountain pool. Raspberries here and there cling to a while longer to their stems. The birds drift in the bright sky; green dogwoods shed their vital quiet green shadow on the brook which twines with their roots as the pines lofty above it all. Into the pool, icy pool on the sweltering summer day and days. Two boys dive into the ice, shivering in pure pleasure and arise, leaving the pool. Two men step back out into their domain, terrain, environment, conditioning poison ivy climbing up a tree innocuously shading into bark. Gravel road spikes onto perpetually tender feet hurrying over unevenity. An avenue of spruce into a leaf strewn, wilderness of beauty, shade, penetrating light, leafy green ceiling of a screen, variegated curving into beauty, sky slender replacements rising beside tiny mushrooms through deep green moss.

Thunderheads rise in the distance to fall upon the freshness, purity heavy paths leading to the heights green, sour, sweet, fresh apples at a point on the way to the peak and the blue-green mountain hills of earth.

The biggest one to date is 50 megaton, and they have it. Its radioactive cloud has encircled the United States several times, and opinion on effects of radioactive fallout are controversial. It is a great danger or negligible because it would take hundreds of 50 megatons to contaminate anything to any dangerous level.

Threats, counterthreats, counter-attack methods, retaliatory power, anti-anti missiles cloud the minds of scientists and na-

tional leaders, and a tiny miscalculation could cause global annihilation. No one knows to what extent they will go, but any one explosion would cover thousands of miles with fallout. Due to prevailing winds, twenty-four hours after detonation fallout will overlap until it almost completely covers the United States.

Neutron bombs would destroy all life at almost no harm to the creations of man.

"Your Federal Government has a shelter policy based on the knowledge that most of those beyond the range of blast and heat will survive if they have adequate protection from fallout."

"The least expensive shelter described is the Basement Concrete Block Shelter. The most expensive is the Underground Concrete Shelter."

"Each of the shelters incorporates the fundamentals for fallout protection—shielding, mass, ventilation, space to live. Each can serve a dual purpose—protection from tornadoes and other severe storms in addition to protection from the fallout radiation of a nuclear bomb." *Civil Defense Brochure*

A little grey dog, that was at one time the mascot of the KA's, drags itself along the gutter. There are no more KA's. There are no more OX's. There are no more fraternity men. And soon, there is no more little grey dog.

"Once again the foul winds of war are blowing . . . I cannot understand why man should do this . . ."

*Prime Minister Nehru of India*

The 1961 fall semester Philip Morris contest ends December 5 at 1:00 p.m. in front of the Student Supply Store. Bring by your empty packs of Marlboro, Philip Morris, Alpine, and Parliament to compete for the two Philco T.V. sets. Tom Michaels, TE 3-9814 will answer any other questions that you might have.

## Profile . . .

Robert St. John

Mr. Robert St. John is the featured speaker for the C. U. Forum committee on Tuesday, December 5 in the ballroom of the College Union.

Mr. St. John's first Literary work, "From the Land of the Silent People," was published in 1942. It was the story of his flight from the burning city of Belgrade, his escape from tottering Yugoslavia in a twenty-foot sardine boat, the death of some of his colleagues at the hands of the enemy, and how he himself became one of the first American war correspondents to be wounded when a Greek troop train he was on was strafed by a German plane.

"From the Land of the Silent People" went into five editions, was a Literary Guild selection, was translated into a number of foreign languages, was the war's number one best seller in Sweden, and was called by one New York critic "the best book to come out of World War II."

Back home again after the war, he wrote a novel, "It's always Tomorrow" which told in fictional form of his own ex-

periences in Britain, including the adventure of working during the Blitz in a British munitions factory on the edge of London during the day and broadcasting his reports while London slept.

Later he went to Palestine, arriving just in time to see the birth of the new republic Israel. He remained for many months as a war correspondent covering battles between Israeli and Arab soldiers.

He wrote a biography of Israel's Ben-Gurion during his visit there. He later followed with a biography of Ben-Gurion's arch-rival, Egypt's Nasser.

St. John has lectured since the early days of World War II. In recent years he has divided his time almost equally between gathering stories abroad, putting his findings down onto paper, and doing one-night stands around America. Just recently he covered the controversial Eichmann Trial in Israel, the meetings of President Kennedy with de Gaulle in Paris and Khrushchev in Vienna, and many other important events.

## Letter To Editor

# ROTC: Re-Rebuttal

To the Editor:

I should like to take this opportunity to make a few observations concerning the N. C. State ROTC program.

First, as concerns Mr. Harris's letter. When I asked that all commissioned and non-commissioned officers be shown proper respect, I did not mean to imply that anyone who does not take ROTC was immature; I simply wanted to point out that young men fresh from high school are, more often than not, given a sort of added impetus along the road to adulthood if they participate in some sort of military program. They are taught a form of discipline which may often help them to fully develop their own self-discipline.

As far as the comments on Mr. Vanecek are concerned, may I say that I know Mr. Vanecek personally, and he already has over 30 months active service. I believe therefore that it would be foolish for him to "rush out and join up", as Mr. Harris suggested. We are both serving on active duty at the present time. I will agree with Mr. Harris on one point, however; neither Mr. Vanecek nor I have any right to uphold or condemn compul-

sory ROTC, since neither of us are enrolled in that particular course, nor will we ever be. I can see no reason why we cannot comment on the attitude, though. It is part of becoming an adult that one learn to accept the good with the bad, and whether or not a student likes ROTC is no reason for him to write rash, childish statements about the men who are now serving or those on higher levels who are responsible for the institution of the program. No one likes to pay income tax, least of all myself, but I pay it because it is part of the system of government of this country. The same applies to ROTC; as long as it is compulsory at this college, then students will just have to make the best of it. That's part of being grown up.

In closing, may I say that anyone who would like to "cut my throat" in a journalistic fashion should first read Dean J. J. Stewart's article on compulsory ROTC. This article appears on page one of Monday's Technician. I think most students will agree that there are some pretty valid reasons why the College Administration continues to require ROTC.

Paul H. Bock, Jr.

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# Pack Wins Opener Face Deacs Tues.

By Richie Williamson  
Sports Editor

Coach Everett Case won his 350th game as head coach at N. C. State Saturday as his team stopped Tennessee 71-64 in the Coliseum. It also marked the 13th straight opening game victory for the Pack, going all the way back to 1948 when they last lost a season opener.

The Pack grabbed the lead in the first three minutes of play and were never headed by the Vols. The zone defense used by the Casemen was very effective in keeping the ball away from 6-10 Orb Bowling and forced the visitors to shoot from the outside. Meanwhile, State used a variety of jump shots, drives, and rebounds to provide them with the offensive spark.

The big test for State comes tomorrow night in Winston-Salem when the third ranked Deacons of Wake Forest play host to the Wolfpack. The Deacs had no trouble in smashing small Davidson in their opener Saturday night as Bones McKinney used his entire squad. However, State will have their hands full in stopping All-American Len Chappell under the boards, especially since a collapsing defense around the big man could be rendered non-effective by the outside shooting of guards Billy Packer and Dave Wiedeman.

Jon Speaks lead the Pack assault on Tennessee with

20 points, getting 16 of them in the first half. John Pungler took up the scoring lead in the second half with 13 points to give him a game total of 19. Pungler was also the leading rebounder for the night with 15 while Pete Auksel pulled down 11 from the boards.

The contest was tight throughout the first half with State opening up their biggest lead of the first half of seven points on a pair of baskets by Pungler at the midway mark. The Vols quickly cut this lead to one point before Speaks hit for ten points in the next four minutes to send State to a 37-31 halftime lead.

State increased their lead to twelve points in the first three minutes of the second half on a basket and two free throws by Speaks and a goal by Wherry. The Vols could never get closer than six until the last minute of play due mainly to a hot streak by Pungler in which he scored 9 points in a

(See PACK WINS, page 4)

## Notice

There will be a clinic for intramural basketball officials at the gym on Wednesday at 4:15. There is a need for a number of officials to call the 50 games per week schedule. Payment is one dollar for each game worked. All interested are urged to attend.

# Tankmen Lose

The N. C. State swimming team lost its season opener in a very close meet to the University of Maryland by a 54-40 score. The meet saw seven pool records fall in ten events in the College Park pool. Maryland virtually clinched the conference title since State was the only team that was figured to be able to stop the Terps.

Maryland pulled off a big upset in the opening event of the meet when sophomore Kevin Gibson overcame a 20-foot deficit on the anchor lap of the 400-yard medley relay to give the Terps a first place.

State's All-American Ed Spencer was beaten in his specialty, the 200-yard butterfly, by Harry Lupien. Also, Smoky Ellis lost to Al Marmelstein in the 50-yard freestyle.

Pete Fogarasy, the All-American breaststroker, set a new pool record in winning the 200-yard breaststroke and added a second place in the individual medley. Soph Bill McGinty was a double winner in the 100 and 200-yard freestyle events and swam the anchor leg of the winning freestyle relay team.

# Becton Leads Dorm Fall Point Standings

By Earl Mitchell  
Becton dormitory holds a slim

# THE TECHNICIAN

December 4, 1961

six and a half point lead over Bragaw North in the dormitory intramural point standings with the fall sports completed. Becton has picked up 476 points to date to 469 1/2 for Bragaw North. Down the line in third place (See BECTON LEADS, page 4)



# ARROW TAPERED TORSO

If your waistline is medium to slim, you are a candidate for this distinctive block print Arrow sport shirt. Contour tapered for a trim, neat fit... in handsome muted colorings, styled with button-down collar and back pleat. Sanforized labeled.

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# WINNERS VICEROY FOOTBALL CONTEST No. 3

(For games played Saturday, Nov. 4)



**1st Prize \$100.00 CASH!**

Calvin Oliver, Chemical Engineer major, Class of '64, (photo at left), walked away with the hundred bucks prize money in Viceroy's 3rd football contest! Alan Aitken, Class of '63, took second prize money (\$50), and James Lisk, Class of '65, got the third prize of \$25.

**5 PRIZES OF \$10 EACH WON BY THESE STUDENTS ON CAMPUS!**

(Dave Burton, Class of '63, William Haddon, Class of '65, Bobby Harris, Class of '64, Joe Hollowell, Class of '63, and John Taylor, Class of '63.)

Plus - A carton of Viceroy's to all students who got all the winners right, regardless of scores!

# WINNERS VICEROY FOOTBALL CONTEST No. 4

(For games played Saturday, Nov. 18)



**1st Prize \$100.00 CASH!**

Calvin Oliver, Chemical Engineer major, Class of '64, (photo at left), walked away with Viceroy's one hundred bucks prize money! Glenn R. Smith, Jr., Class of '64 took second prize money (\$50), and Kenneth Byrd, Class of '63 won the third prize of \$25.

**5 PRIZES OF \$10 EACH WON BY THESE STUDENTS ON CAMPUS!**

(Tom Gunter, Class of '62, Garrieth Pendergraph, Class of '62, Lee S. Self, Graduate student, James Steele, Class of '65, and Benny Ware, Class of '64.)

Plus - A carton of Viceroy's to all students who got all the winners right, regardless of scores!

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West Side.

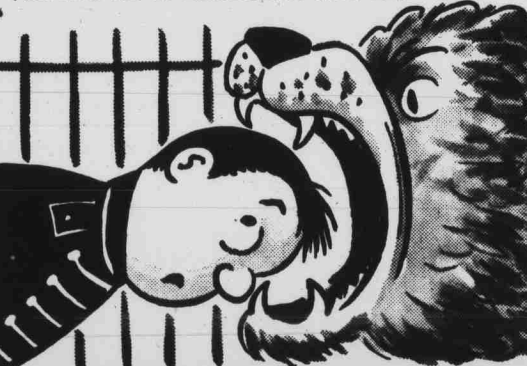
Omit salad or dessert and save an additional 10¢

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Lunch 11:00 A.M.—1:45 P.M.  
Dinner 5:00 P.M.—7:00 P.M.

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(GETTING RID OF DANDRUFF, THAT IS!)



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Society of Professional Engineers. Honorary organizations to which he belongs are Sigma Xi, Tau Beta Pi, and Eta Kappa Nu. Lampe has been classified a Registered Engineer in both North Carolina and Connecticut.

Dr. Lampe received in 1953 an honorary degree from Clarkson College of Technology; he was named Doctor of Science. He and Mrs. Lampe have three children.

be selected by a committee appointed last summer by Chancellor Caldwell.

Dean Lampe is a native of Baltimore, Maryland. An author of many articles for technical journals, he has been extremely active in professional organizations, including the National

### Crier

(Continued from page 1)  
Cleveland Graphite and Bronze Company, will give a talk entitled "Don't Lose Your Bearings."

It has been announced that the Air Force has lowered visual standards for commissions in the Technical and Non-Technical fields. This change does not apply for flying training. Further information may be obtained in room 145, Coliseum.

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FINCHES RESTAURANTS

Raleigh, N. C.

## Lampe Plans Retirement

(Continued from page 1)  
schools of the nation have a meeting, North Carolina State will be on the front row and will holler "HERE!"

"New leadership and new blood are important," Lampe concluded. "I feel certain that State College will continue to play a prominent role in engineering education in America."

The new Dean of the School of Engineering will

## Becton Leads

(Continued from page 3)  
is Bragaw South with 485 points, while Berry holds down fourth place with 408½ points. In fifth place is Alexander with 345½ points.

One of the main reasons for Becton's being in first place was their winning the football championship with a perfect slate. For this feat they picked up a total of 260 points which was 45 more than second place grid finishers Bragaw South got. Bragaw North completely outclassed the field in volleyball with an undefeated season and the championship for a total of 170 points. Bragaw North tied for the top points in golf with Owen #2 with each getting 57½ points for their championship efforts.

In swimming Bagwell claimed the top prize with 79 points, while Bragaw North was second with 77. Berry had 61 points in swimming. With only two exceptions, all the dormitories received the full 40 points for athletic director participation. Tucker #2 did not receive any points in this category and Turlington picked up 20.

The following is a complete list of the dormitory point standings for the fall sports.

Becton	476
Bragaw North	469½
Bragaw South	435
Berry	408½
Alexander	345½
Bagwell	334
Owen #2	302½
Syme	279
Watauga	267
Tucker #1	262
W-G-4	237
Tucker #2	213
Owen #1	208
Turlington	203

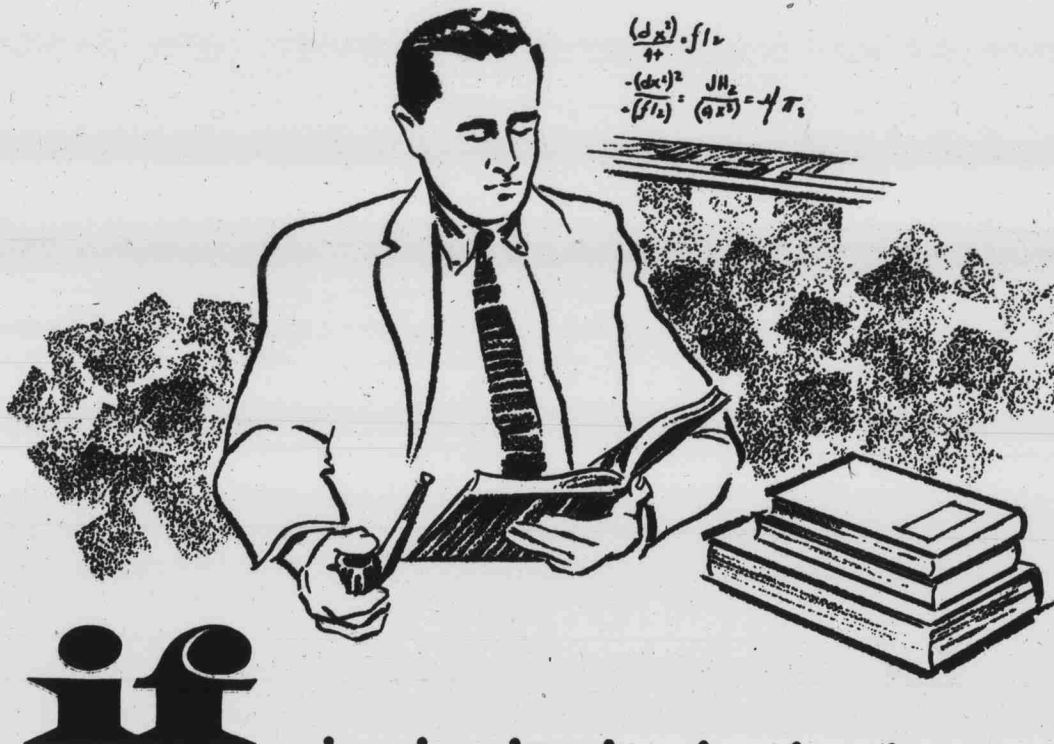
With the exception of the Dixie Classic Intramural tourney, the only dorm action this week will be bowling on Tuesday night and Wednesday night at 9:00. On Tuesday Tucker #1 meets Alexander, Becton clashes with Berry and Bagwell faces WG4. On Wednesday night the matches will feature Bragaw North, Syme, and Tucker #2 against Turlington, Owen #2, and Owen #1 respectively.

Bragaw North leads Section #1 with an 11-1 slate followed by Alexander with a 5-3 mark. Top bowlers in this section and their averages are Bally of Alexander, 171, Hagar of Bragaw North, 169, and Tanner of Watauga, 168.

In Section #2 Syme holds the lead with a perfect 12-0 slate, but Bragaw South is close behind with an 11-1 mark. The top bowler in Section #2 is Wilhelm with a 178 average. Wilhelm bowls for Owen #2. Olsen and Lipsivis, both of Syme, are second and third respectively with averages of 174 and 169.

## Pack Wins

(Continued from page 3)  
minute and half of play. State ran into trouble in freezing the ball as in the past when they lost it twice in a row due to bad passes, but managed to hold to their lead for the win.



## You have (or will have) your Ph.D. or Master's Degree

If you are interested in the rewarding challenge of vital research and development work with a leader in the Space Age sciences.

If you are looking for a company where the scien-

tist or engineer finds his way of work and the importance of his contributions are fully respected.

If you are experienced and/or interested in one of the many technical disciplines listed below.

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PHYSICAL CHEMISTS (For high-temperature chemical reactions, both organic and inorganic).

PLASMA PHYSICISTS (For experimental research. Electromagnetic background necessary).

AERO-PHYSICISTS (For research with hypervelocity fluid mechanisms).

### LIFE SCIENCES

BIO-PHYSICISTS

PSYCHOLOGISTS (Experienced in systems analysis).

BIO-CHEMISTS (With background in chemical synthesis).

INDUSTRIAL DESIGNERS

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In Applied Mechanics, Physics, Mathematics, Aeronautical Engineering or Civil Engineering. Should be experienced in structural analysis and design on high-temperature structures and have background in elasticity, plasticity or dynamics.

CHEMICALS AND MATERIALS

Physical Chemists experienced in high-temperature reactions.

TEST AND INSTRUMENTATION

Experimental Physicist with experience in Spectroscopy.

### ELECTRONICS DIVISION—RESEARCH & DEVELOPMENT

SENIOR SCIENTISTS for ELECTRONICS RESEARCH (Solid State) in the following areas:

HIGH TEMPERATURE CERAMICS • MICRO-WAVE ELECTRONICS AND SEMI-CONDUCTORS • CRYOGENICS • MATERIALS RESEARCH (Physical Chemistry) • MASERS, LASERS AND OPTICS

ELECTRICAL ENGINEERS

Experienced and/or interested in guidance and navigation and automatic controls.

### PROPULSION SYSTEMS

AERO-PHYSICISTS

Openings for Aero-Physicists with a variety of technical disciplines—including fluid mechanics, applied numerical methods as used in partial differential equation solutions, measurements, physical chemistry in high-temperature gas dynamics.

PHYSICISTS

Experienced and/or interested in design and development of electrical propulsion systems and energy conversion.

MECHANICAL ENGINEERS

With experience and/or interest in the fields of advanced spacecraft propulsion systems; high temperature—high velocity flow analysis, thermodynamics, hydrodynamics, analytical and conceptual design of propulsion systems, fluid dynamics of multi-phased gases.

## ON-CAMPUS INTERVIEWS

Dec. 4, 5

Please contact your College Placement Officer for appointment

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