

The Technician

North Carolina State College's Student Newspaper

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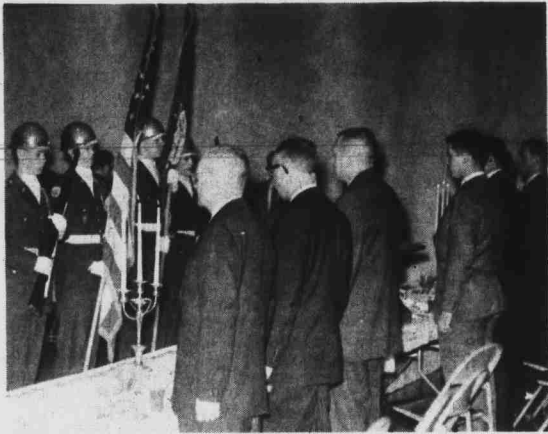
Complete (UPI) Wire Service

State College Station, Raleigh, N. C., Monday, Jan. 16, 1961

Offices in 1911 Building

Four Pages This Issue

Army Dinner



The State College Company Association of the United States Army held a ceremony for the presentation of the charter and the installation of officers last Thursday at 6:30 in the College Union. (Photo by Hoey)

Report Released On Rocket Research At State College

Facts and figures concerning rocket and missile research at North Carolina State College were presented to members of the Raleigh Kiwanis Club at a luncheon meeting Friday (January 13) at the Sir Walter Hotel.

Reporting on the college's research was Dr. Arthur C. Menius, Jr., dean of the State College School of Physical Sciences and Applied Mathematics.

The college now has in force five contracts totaling a quarter of a million dollars for rocket and missile research.

Dr. Menius said the college rocket research covers a wide range of significant space-age fields including satellite motion, missile instrumentation, and fracture mechanics.

In addition to the grants for research, the college has on loan over \$300,000 worth of equipment to handle its specialized investigations for the Office of Ordnance Research, the Office of Naval Research, the Army Rocket and Guided Missile Agency, and the Ballistic Research Laboratory at Aberdeen, Md.

Dr. Menius showed a movie on loan from the George C. Marshall Space Flight Center at Huntsville, Ala., depicting in some detail the United States weather satellite and indicating through film the use of satellites for the future control of weather by man.

Also shown were slides indicating the research being carried out in North Carolina State College's School of Physical Sciences and Applied Mathematics relating directly and indirectly to the missile and satellite development.

W. Herbert Jackson, president of the Raleigh Kiwanis Club, presided over the meeting.

College Repeals Fee Payment Plan

Chancellor John T. Caldwell released the following statement concerning the payment of tuition and fees for the spring semester to *The Technician*.

After earnest study the Business Manager arrived at a considered decision to change the procedures for collecting student fees. The announced new procedure, in our opinion, would have been on the whole more efficient and of decided advantage to many students. Admittedly many students who felt inconvenienced by the present procedure which permits advanced payment would not be advantaged by the new procedure, and some obviously might be disadvantaged. But the general result of the new procedure using eight or nine cashiers and carefully programmed operations, would have been an improvement for students and administration. This remains our opinion.

It is apparent, however, that the students do not believe this improvement to be a fact. Their apprehensions have been widely expressed, and we have not succeeded in bringing about an acceptable degree of understanding of our problem and our thinking. Even after our open conference with students Wednesday afternoon, this "gap" persists. In my opinion the prospects of objectivity and favor in experiencing and evaluating the new procedure are dim indeed in the present climate. For these reasons, the

Administration, reluctantly but in good spirit, will readjust the Business Office work schedules and plans to the maximum degree possible in order to implement the following procedure which is hereby announced. It is hoped that our experience with the following plan and more study with the students will produce a happy climate for further experimentation and improvement in our service to the student community.

Students desiring to do so may pay their Spring Semester tuition and fees at the Business Office in Holladay Hall between the hours of 8:00 a.m. and 1:00 p.m. on any day, Monday through Friday, during the period January 23 through January 27.

The Business Office has made arrangements to receive these payments and the Office of Registration will issue permits to register as payments are made. Those students who do not make their payments during this one week may make them at the Frank Thompson Gymnasium on Registration Day, February 3. Additional special arrangements pertaining to holders of scholarships and loans will be announced as soon as possible.

Army Assoc. Dinner Has Joint Program

N. C. State College Company Association of the United States Army held its charter presentation and installation of officers program at a dinner ceremony in the College Union at 6:30 P.M. on 12 January.

The charter was presented by Colonel Arthur Symons, USA Retired who is National Secretary of the Association with Headquarters in Washington, D. C. A gavel was presented to the Company by Mr. Ernie Massei of Fayetteville, President of the Braxton Bragg Chapter of the Association. The guest speaker was Colonel Louis Cheatham, Deputy Transportation Officer, Headquarters XVIII Airborne Corps at Fort Bragg.

Officers installed were Captain Harry Mullis, President;

1st Lieutenant Robert Roach, Vice President; 2nd Lieutenant Charles Vaughn, Treasurer; and 1st Sergeant James Oppenheim, Secretary.

Among the honored guests were Dean Robert Carson, School of Engineering; Professor J. Frank Seely; Mr. N. B. Watts; General John D. F. Phillips; Colonel Ernest Bush; and many others.

The purpose of this Company is to promote activities and conduct programs which will enhance respect and devotion to the United States, and the Army of the United States, promote citizenship, and acquire information about the place of the Army in the defense of our nation that can be passed on to other students.

Raleigh Natives Served By Extension Division

North Carolina State College is keeping step with the intellectual and creative needs of the Raleigh area's rapidly increasing population by offering a variety of 48 courses in the college's spring semester of evening classes.

The credit and non-credit courses will be offered beginning the week of February 13.

Among the many business enterprises recently established in this area and consequently bringing newcomers to Raleigh and vicinity is the Research Triangle.

When the forthcoming evening classes were on the planning board, State College was aware of the diversified interests of the new residents as well as those of other Capital City folk and arranged classes to

whet their scholastic appetites. Each year, the college presents two series of night classes and each year, registration grows larger.

Edward W. Ruggles, director of the North Carolina State College Extension Division, said the program last fall brought a record high enrollment of 910 students.

"The number of persons enrolling in college-credit courses in particular, is increasing yearly," said Director Ruggles.

The 1961 spring semester includes 33 credit, 12 non-credit, and three televised courses. Most of the classes meet once a week for three hours over a period of 15 weeks.

Art Professor From Meredith Featured at C.U.

An art showing featuring 23 paintings by Ruth A. Clarke, head of Meredith College's Department of Art, will be staged at the North Carolina State College Union Gallery beginning Monday (January 16).

The formal opening of the show at 8 p.m. Monday will include an invitational coffee hour.

The oil paintings are either non-objective, abstract, or cubist derivation in style.

Professor Clarke has studied with the famous Hans Hofmann in Provincetown and the Art Students League in Woodstock since receiving her Master of Fine Arts degree from Woman's College of the University of North Carolina. Prior to instructing art at Meredith College, she taught at Woman's College.

The exhibition will be sponsored by the College Union Gallery Committee under the chairmanship of John Stone of Greensboro. Some paintings from the college may be purchased from Miss Clarke.

Biometrics Society Elects Lucas Pres.

Dr. H. L. Lucas of the Department of Experimental Statistics at North Carolina State College is president-elect of Eastern North American Region of the Biometrics Society for 1961.

The Biometrics Society represents the strongest professional organization in the country in the field of experimental statistics. The Institute of Statistics was instrumental in the organization of the society and served as editor of the "Journal," the society's publication, for many years.

Dr. Lucas is a William Neal Reynolds professor and is nationally recognized for his research in experimental statistics and biomathematics. He is currently in charge of a new training program in biomathematics which is being developed at State College.

Dr. Lucas was a member of the Cornell University faculty prior to coming to State College in 1946.

Research Program Progresses

Raleigh, N. C., Jan. 21—North Carolina State College's Department of Engineering Research is humming with activity—activity which has far-reaching influence on today's technological developments.

The whirring of rotating disks, the powerful hiss of billowing steam, the vibrations of compaction devices, the roar of fired kilns, the clicking of computers! These and other steady sounds signify that engineering research, both basic and applied, is very much in progress at the college.

Under the direction of N. W. Conner, the Department of Engineering Research has become widely-known for its contributions to fundamental research in many areas of modern technology and is continually called upon to conduct research for industries and government agencies from throughout the State and nation.

In the last decade, this active department in the college's School of Engineering made rapid strides in its two-pronged program of education and re-

search. Results from several major research projects have added to the storehouse of knowledge in a number of the nation's newer vital programs, especially those of atomic power and rocketry.

The use of graduate and undergraduate student assistants on projects is part of the department's integrated program of education and research which enables engineering students of State College to gain experience in the field of research and prepares them to enter into the research endeavors of various industries.

In reviewing the progress of the country's research programs, Director Conner predicted that "in the decade ahead research and technology hold the key to world challenges."

"National survival demands a continuing appreciation and appraisal of the use of our total resources for both defense purposes and the maintaining of our high standard of living," he stated.

The research director pointed out that it is essential that "we

not only preserve our free way of life but also accelerate our efforts to achieve a better way of life for all of our people."

The department, through its very capable research staff, continues to assume leadership in the application of research and technology in order to meet the challenges of the time and to achieve even greater prosperity for the people of North Carolina and the country.

By maintaining a proper research atmosphere at the School of Engineering, the department encourages engineering faculty members to greater interest in the basic concepts of their fields and assists them in securing financial support for research.

Currently the full-time research staff is engaged in some 26 projects while the total research effort of the engineering school accounts for 41 additional experimental undertakings.

Seventeen research projects were carried to completion last year by the Minerals Research Laboratory in Asheville, which is administered by the research

(See RESEARCH, page 4)

Campus Crier

The AIIE will hold its last meeting before the mid-semester break, Tuesday night at 7:00 p.m. in room 243 of the College Union.

The evening's program will feature a representative from Blue Bell Manufacturing Company of Greensboro, N. C., Mr. Phillip L. Baird of Blue Bell's Industrial Engineering Department will speak on "The Role of the Industrial Engineer in Business." After a short business meeting, during which plans for the coming Engineers' Fair will be discussed, coffee and refreshments will be served. All Industrial Engineering students are urged to attend this meeting.

The AZ Book Exchange will be open on Thursday, 19th and Friday, 20th in the cloak room on the ground floor of the CU.

The primary purpose of opening these two days is to let the graduating seniors get their books out, but any other business will be welcome. The Book Exchange is also going to be open the first week of next semester from 12 until 5:30 p.m. each day. Fees for selling books through the Exchange are as usual, 10¢ up to \$3.99, and 5% for \$4.00 on up. Money made by the exchange goes to scholarships for students.

Attention Student Wives: Will the student wife who inadvertently received from the College Union check room on 11

(See CAMPUS, page 4)

Comments From The Editor A Deeper Lesson

It is easy for the reader of the average college newspaper to form a strong mental link between the words "criticism" and "editorial." This phenomena is caused primarily by the writer of such an article who, like a majority of the other students, is keenly aware of defects in the academic surroundings.

The editorial, however, is intended as an outlet for student feeling, whether it be favorable or not. It is sincerely hoped by this staff that our concepts of student feeling and student criticism are never allowed to merge.

Much has been written of the current controversy at State concerning the payment of tuition and fees for next semester. Registration at best is an exhausting process for many students; the proposed plan for adding the task of paying tuition to the registration schedule was regarded by them as unpleasant, to say the least.

This idea was offered by the administration, we believe, as a sincere effort to streamline the complex job which semester registration has become to them. It was hoped that the plan would not present an added burden to the students.

But, alas—it is unfortunate that only students have the viewpoint of a student. This truth was proved by the wave of protest, rational and sometimes irrational, which promptly arose against the new procedure. Student body president Bob Cooke should be commended for his mature investigation of the Holladay Hall decision.

Discussion between administration and students failed to provide any ideal compromise. The result of the discussions was the modified payment plan announced by the Chancellor. Few students can reasonably find fault in the system as it now stands.

More has been involved in this struggle than just the addition or subtraction of another long line at registration. Several good lessons have been learned. Holladay Hall has learned that change and progress are not necessarily synonymous. Their efforts to facilitate the ponderous procedure of enrolling at State College are certainly admirable; this is indeed a desirable project.

The student body, on the other hand, cannot fail to appreciate the attitude adopted by our college administrators. It would have been easy for them to insist on having their way; instead of being dogmatic, they have been willing to consider at least the students' feelings on the matter.

And it is certainly hoped that both groups have had impressed upon them the fact that State College is an educational institution. It cannot thrive without faculty, students, or administration. Everything which can be done to provide a conducive atmosphere for all of the groups aids materially in the accomplishment of the college's mission.

—WMJ

The Technician

Monday, January 16, 1961

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State College . . A View From Within

(Ed. Note. This is the third in a series of articles about State College, its attitudes, its problems, and its strengths. It is written by Joel Ray, a State College student, a man who should know. Mr. Ray has been an active participant in many phases of student endeavor; his observations reflect a mature consideration of our academic atmosphere.)

After having my last two articles slashed by the Print Shop for lack of space (in both cases the last paragraph was removed with not a thought about what it would do to the article's meaning), I have, after much serious thought, decided to try again, in the hope that this ill-founded editorializing will cease. Please forgive this outburst of emotion in what is supposed to be a rational column; I just wanted to assure you that my writing, however bad it may be, is not quite as undigestible as it has seemed in recent weeks. Now, where were we? Oh, yes—

"Where did you go?"
 "Out."
 "What did you do?"
 "Nothing."

This familiar snatch of conversation, a masterpiece of ennu, fittingly symbolizes the world in which we exist at State College. For four years (or more) we go through the paces, struggling out the sack to face

another day of hell, working, cramming, cursing our professors and learning by rote. In short, existing. But not really living. And what's our reward for all this? A little piece of paper, telling the world that we are educated men.

It is reputed that there are three levels of discussion. They are: 1. Ideas 2. People and things 3. Experiences. In a not so dimly lit room somewhere on campus, three State students are deeply engrossed in a discussion. Their names are John, Paul and Ed. Their level of discussion: No. 1. Let's look in on them.

J: I feel that I should agree with your idea that the college is not doing its job properly, but first, what are your arguments?

E: Well, first you must ask yourself what higher education should try to accomplish. The primary thing involved is in learning how to think for yourself, because you really don't retain but 5 or 10 per cent of what you learn. In class, that is. You probably retain much more, percentage-wise, of what you learn in your activities outside of class.

J: For instance, in bull sessions like this?

E: Yes. These discussions can be invaluable because you're free to express your own ideas and opinions. You get an opportunity to use your ability to think clearly. Here in class, you get

cold, hard facts shoved at you and soon find yourself loosing that ability if you're not careful.

P: Yeah, these damn people around expect too much, too. They don't take relative ability into account at all. To really make it through this place and have some knowledge to show for it, you either have to be a genius or else, you spend all your time studying. Push, push, push. No time for anything else, but you sure know that F equals ma when you get out.

J: And when you start to work, you can always find the answer in a book or table if you don't remember it. Man, that's what I call learning how to think! Why don't they just teach one great big course on how to look up formulas and be done with it?

E: You know, if it weren't for Winston Hall, this school would be a complete loser. Just look at the professors over there. Great! They sure prod the hell out of your brain if you can stand it. It's too bad that we can't take more courses over there.

P: Hey, man, why are you here, anyway?

E: For the same reason as everybody else. You can't make it unless you have that degree. It's a damn shame.

J: I've known guys that have educated themselves and would they make us look sick. That's a rarity, though.

P: But they're really living, they have a real sense of direction, and that's something you don't find around here. Your direction is all mapped out for you. Just fall right in. Dress right.

E: One of the best ways of directing yourself here is to participate in a worthwhile organization. And by worthwhile, I don't mean professional societies. I asked Bill the other day what he expected to get out of the one he just joined and the only answer he could give me was that it would look good on

his record. Made me sort of ill. J: I know what you mean. It's sort of ridiculous to pay 15 or 20 bucks to join a club that's not going to develop you as a person.

P: But there are some fine activities around, if people could only see their worth and take advantage of them. Student Government has tremendous potential but the students don't seem to have the right attitude about that. Some of them think it's mickey-mouse.

E: And there are a hell of a lot of good lectures and other programs available. Friends of the College is a good example.

P: But when you get right down to it, the big problem is that the students don't know what they want when they come here. No kidding, more guys spend a couple of years here before they really find out what's coming off. Lousy high school preparation, that's what causes it. There are just too many guys here that have gone to county high schools, little ones, and they haven't received the proper training for college.

J: The question is, how can we correct this after they have already entered State?

E: You know, I'd like to see the University really consolidated, like on one big campus. Similar to Duke, maybe. Then you let all the students take one basic year of study and branch out into their respective fields in the second year.

J: And you could help the situation by having them all take a battery of aptitude tests when they enter. This would give them at least an idea of what they want to do with their lives.

P: Oh, well, we're not going to change anything. Besides, I've got a quiz tomorrow. I better be going.

J: Yeah, 8 o'clock comes awfully early. See you tomorrow.

E: O. K. Maybe we can pick up where we left off tomorrow night. Good night.

Notice No. 1

Students desiring to obtain tickets to the State-Virginia game that is to be held in Greensboro's new coliseum may do so by going by the William Neal Reynolds Coliseum Box Office. Tickets are being sold at half price. A student may also pick up a date ticket for half price. The price of the tickets are \$1.25. The game is to be held January 31 during the semester break.

Notice No. 2

Several construction projects are underway on the campus. The installation of larger steam pipes in the area of Alexander-Turlington - Owen - Tucker and Bragaw Dormitories is a major one.

It will not be possible for this work to be called off during the time before and during the examination period. The Contractor must continue to complete the job as soon as possible.

Those students who find this work interfering with their study are requested to go to the library or academic buildings during the day when the construction is in progress.

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Swimmers Meet Match; SI Downs Pack, 58-37

By Earl Mitchell
Sports Editor

The North Carolina State swimming team met their match Friday night in the form of Southern Illinois in Frank Thompson Pool. Led by national star Ray Padovan, the Illinois team downed State 58-37.

The loss was the first of the season for the Wolfpack while they have picked up four wins. On Saturday morning, the Pack got back in winning form with a 55-28 victory over Virginia. Coach Willis Casey shuffled his lineup for this meet considerably to give some of the second string swimmers some experience.

In the Friday night battle Southern Illinois got off to a roaring start with a win in the 400 yard medley relay. The effort of the SI team was good enough to set a new pool record of 3:51.1.

A packed pool saw Padovan edge out State's Ed Spencer in the 100 yard freestyle to tie the existing NCAA mark in that event of :48.6. In the second event of the night, the 200 yard freestyle, Spencer grabbed a first place and then with only a little rest, Spencer swam in the 400 yard freestyle and came in second.

The Southern Illinois team grabbed blue ribbons in the 50 yard freestyle, 200 yard individual medley, 200 yard butterfly, 200 yard backstroke, and the diving competition. In addition to Spencer's first in the 200 yard freestyle, the Wolfpack picked up first places in the 200 yard breaststroke and the 400 yard freestyle relay.

The meet had been figured so closely before the first event that the Wolfpack had to have a first place in the 400 yard medley relay if they hoped to

have any chance of winning the meet.

The Wolfpack now stands 5-1 on the season after their Saturday win over Virginia. In that meet the Wolfpack lost two blue ribbons due to disqualification. In the 400 yard medley relay the Wolfpack team was disqualified because one of the swimmers cleared the starting block before the swimmer swimming before him touched the end of the pool. In the butterfly event all of the official entrants were disqualified for illegal strokes or turning procedures.

In other minor sport action, the State freshmen wrestling team beat the Carolina frosh 20-15. The Pack copped four of the eight events with a draw coming in the eighth and final match. The Tar Babies won the first two matches, but Barnes of State picked up five points for a pin in the 137-lb. class. Carolina took the next match and Havas of State won the 157-lb. class with a pin with Simmons grabbing a decision in the next weight class. Watson won the 177-lb. class with a pin. The final match ended in a draw.

Summary:
123 lb., Becker (C) pinned Whisman, 2:34.
130 lb., Whismer (C) won on forfeit.
137 lb., Barnes (S) pinned Po-teat, 7:00.
147 lb., Grant (C) decisioned Gentry, 9 to 7.

Deacons Scuttle Wolfpack; Second Half Beats State

By Jay Brame

Memorial Coliseum, Winston-Salem, N. C., Jan. 14—Wake Forest's All-American candidate, Lennie Chappell, led the Demon Deacons to a 76-66 victory over State College's Wolfpack in a nationally televised game here Saturday. A partisan home crowd saw Chappell score 21 points in the final 20 minutes of action to pace the Deacon win.

The Wolfpack, which had beaten the Deacons two weeks ago in the consolation finals of the Dixie Classic, had a scant 32-31 lead at halftime. They had led by as much as seven points in the first half.

State Leads

State jumped into a six point lead, 42-36, at the beginning of the second half, but the Deacons hit nine points while the

Wolfpack was able to manage only a bucket. The Deacs were then on their way.

With 13 minutes left in the contest, Chappell hit eight points in a little over two minutes, and school was out for the Wolfpack.

Chappell led the Deacons with 28 points, Billy Packer had 14 points and Bill Hull had ten points to follow Chappell in the scoring column. Hull pulled off 15 rebounds to lead the Deacons in that department.

Stan Dumps 20

Captain Stan Niewierowski led the Pack with 20 points. Ken Rohloff, playing one of his finest games of the season, had 17.

The Wolfpack played the starting five or the first 27 minutes of the contest. Moose DiStefano fouled with a few minutes left in the contest with the Wolfpack training by only five points. His loss was felt

underneath the basket.

Once again it was the second half that beat the Wolfpack.

UNC Next

The Pack's next home game will be Wednesday night against North Carolina's Tar Heels. The game will be played in Reynolds Coliseum at 8:15 after a game between the schools' two freshmen teams.

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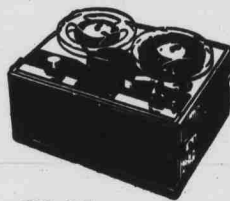
Just when one thinks that he has got an infallible system of picking basketball winners, he soon finds that even the lowest ranked team in the nation has not heard of the system, and this team proceeds to knock off one of the better basketball powers. So it was this past week with two previously unbeaten teams getting a blistering setback from conference rivals. Louisville and Vanderbilt were the schools that saw their first defeat of the season, while strong Detroit fell to Notre Dame and VPI lost their Southern Conference lead by stumbling at the feet of William & Mary.

Jay Brame came out of the weekend with 18 right and 7 wrong to lead the Crystal Ball Corner. Richie Williamson came through with 16 winners, and Earl Mitchell picked 15 right of the 25 games.

Williamson increased his overall lead with a season's total of 64 right, 31 wrong, for a 67.5% average. Brame pulled into a second place tie with Mitchell, each having 62 right, 33 wrong, for a 65.5% average. With the coming exams and intercession, the Corner now takes a couple of weeks of rest and will resume action immediately after the start of the new semester. Good luck on the finals, basketball fans, and hope that you are with us for the second semester.

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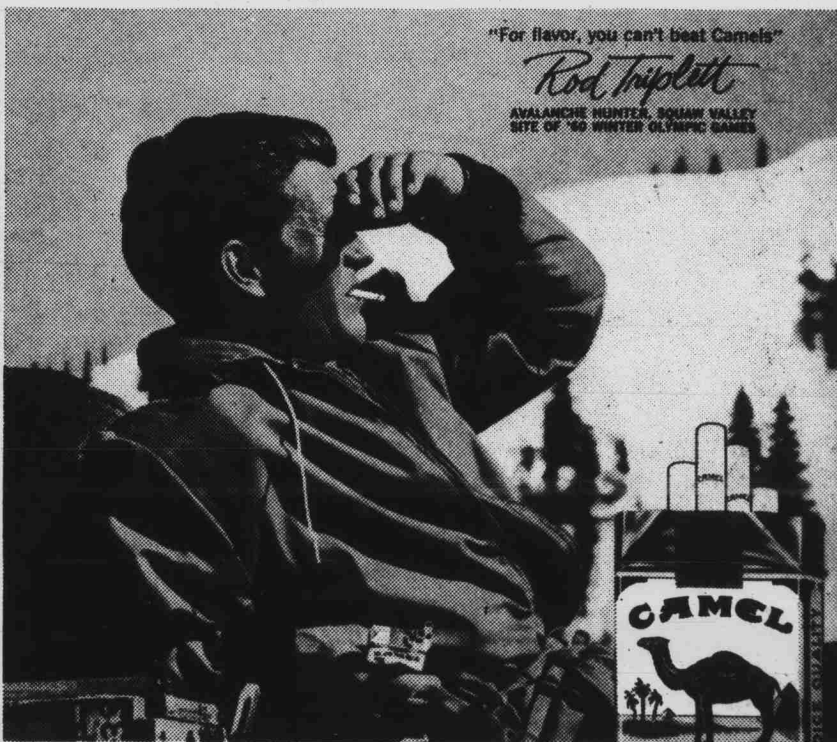
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Campus Crier

(Continued from page 1)

January a long wool beige coat bearing the label "Stanley of California" in lieu of a coat of the same description bearing a "Kerrybrooke" label please call HO 7-9522 to arrange an exchange. Faculty Wives Newcomers Club and Electrical Engineering Student Wives Club were meeting in the College Union on this date.

Forestry Club will meet in 159 of Kilgore Hall at 7:00 p.m. next Tuesday, January 17, 1961. The election of new officers for the coming semester will not be held and all members are urged to attend.

Mr. Sidney McLaughlin, assistant regional forester, will be the speaker. Subject for the night will be employment opportunities with the U. S. Forest Service. This will include descriptions of the various types

of jobs performed by employees of the Forest Service.

A unique and interesting summer abroad with "The Experiment in International Living." Live and travel in a foreign country. There will be a meeting for all those interested Tuesday, Jan. 17, at 4:30 in the TV Lounge of the YMCA Building. Mr. Sam Achziger from Putney, Vermont will explain this program and answer all questions.

F.F.A. Pictures will be made Tuesday January 17, at 6:30 p.m. in the Student Union lobby. All F.F.A. members please be present because these pictures will have a circulation of over 23,000 copies and will cover all 50 states.

**Research Program
Makes Strides**

(Continued from page 1)

department at the college.

Among the current projects contributing to the rocket and missile programs of the nation are those dealing with exterior ballistics of rockets, instrumentation design for missile systems, the motion of satellites, the lubrication behavior of liquid metals, and the application of computer techniques.

Leading to the understanding of the properties of materials are projects dealing with the brittleness of ceramics, the velocity of sound in steam, and the vibratory compaction of granular media. Many of these projects have received much attention throughout the world as presenting original thoughts on the subject matter.

Among government sponsors

of such research projects are the Office of Ordnance Research, the Office of Naval Research, the Atomic Energy Commission, Redstone Arsenal, the Bureau of Ships, and the National Aeronautics and Space Administration.

Other sponsors include the National Science Foundation, the North Carolina Highway Commission, the National Pickle Packers, and the International Nickel Company.

Director Conner pointed out that the growth of sponsored research in the department during the past 10 years may be measured by the steady increase in receipts from \$90,000 in the fis-

cal year 1950 to more than \$461,000 in 1960.

The department's Asheville Laboratory has made major contributions to the State's mineral industry, especially in the area of mineral beneficiation. New plant construction, mineral recovery methods, fabrication procedures, mineral resources savings and improved production techniques verify the laboratory's contribution to the expanded activity of North Carolina's mineral industry.

The engineering school's research department also administers the activities of the Industrial Experimental Program

(IEP) which was established by the 1955 General Assembly to give technical assistance to the State's small industries.

This aid is given through pilot-plant research that develops methods, techniques, and uses for the State's raw materials; through publications offering technical information; through an industrial film library; and through workshops, conferences and seminars providing new ideas and the latest methods on a wide variety of technical subjects. A current IEP program is the treatment of waste disposal and utilization.

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