



Delcie Danroth, AAS Soph., and Bill Light, AAS Soph., watch the minutes tick by as "Penny a Minute Night" marches on. The girls are given thirty minutes late leave for which their dates pay a penny a minute. Proceeds go to Associated Women's Students.

## Annual Little International Features Variety of Contests and Activities

"The Little International," will be held Feb. 6 according to Donald E. Johnson, manager of this year's show.

The 34th annual "Little International," sponsored by the Saddle and Sirloin Club, is primarily a contest among students at NDSC in the fitting and showing of livestock and a contest in exhibition of machinery, agronomic, and horticultural products. In conjunction with each year's program is the "Hall of Fame" banquet, a stock judging contest, and style show.

The Hall of Fame banquet, the first event, will be held in the Student Union ballroom Feb. 5, honoring an outstanding individual of North Dakota for his contribution to agriculture.

More than 200 4H and FFA members from North Dakota and parts of Minnesota will compete in the judging of livestock and crops beginning Saturday morning at Shepperd Arena.

The exhibition of machinery, by the students in agricultural engineering, will be on display all day Saturday.

A style show presented by students in home economics, will take place in the Student Union Saturday afternoon.

A coed cow milking contest and a calf tying contest are among the "Special Events" scheduled for the evening performance starting at 7:15 p.m. Saturday.

The entire program is open to the public. Tickets for the banquet have been set for \$1.75 per person.

The manager and his assistant, Richard Knutson, NDSC agriculture junior, recently announced

the Little International staff. They are Gordon Lund, Mike Brandvick, Charles Bateman, Keith Bjerke, Paul Brackelsberg, Vern Boeshans, Ray Meyer, Gerald Puppe, Maynard Iverson, Allyn Hart, Floyd Aune, Floyd Albers, Jack Brown, Ray Kleppe, Carlyle Hillstrom, Sherwood Peterson, Douglas Richman, Carl Larson, Edward

Hins, Einar Bredeson, Norman Baakegard, Ted DeKrey, Henry Singer, Dexter Johnson, and Pat Meyer.

"This is one of the biggest shows held on the NDSC campus and is a great way of improving relationships between NDSC and the people in the surrounding area," said Don Johnson.

# The Spectrum

VOL. LXXI—No. 17 NORTH DAKOTA STATE COLLEGE JAN. 29, 1960

## School Of Engineering Accreditation Continues; Best Report Ever Received

A report continuing the accreditation of the School of Engineering at NDSC by the Engineers Council for Professional Development (ECPD) has been received by Frank C. Mirgain, dean of the school.

Dean Mirgain said it is the best report NDSC's School of Engineering has ever received. NDSC's engineering curricula have been accredited by ECPD since 1940 but the school has expanded its courses of study many times during the twenty years.

The report to Dean Mirgain stated, "There has been a marked improvement in morale, organization and faculty since the last visit. Steady improvement has occurred in curricula but in a world of rapidly changing technology, continual improvement is necessary."

"There is, on this campus, a real opportunity for cooperative research among the departments such as physics, electrical engineering and the various departments in agriculture."

Dean Mirgain pointed out that research funds at NDSC have been limited due to the necessity of increasing undergraduate faculty and facilities because the enrollment has doubled in the last five years. Another difficulty in obtaining research funds for the School of Engineering is the misunderstanding of the scope of the college's activities with its present title.

The ECPD is an organization representing all engineering so-

cieties and is charged with the responsibility of inspecting and accrediting schools of engineering throughout the United States.

School inspections are made upon request of the schools and must be made at least once every five years. NDSC was last inspected in 1957 and requested the inspection last year because improvement in the curricula and faculty in the past two years warranted a reinspection by the ECPD.

Graduates of ECPD accredited schools receive four years of professional experience credit toward the eight years required for the professional engineering license issued by the professional engineering licensing boards in all states.

## Panhell Awarded Honorable Mention

Panhellenic, national organization which represents all sororities on campus, has received First Honorable Mention by the judges of the National Panhellenic Council Awards Committee, according to Carol Herzog, president of Panhellenic at NDSC.

The award was given to the group for its presentation of Panhellenic activities in a scrap book.

The scrap book was done by two members of Panhellenic, Carol Olson and Karen Salaba.

## Don Evashenko Explains Life of IFYE In Burma

By Arlene Christianson

What is life in Burma like? This is the question that may enter your mind as you see Donovan Evashenko back on the SC campus. As an International Farm Youth Exchange student Don toured Burma for six and a half months. During this time he lived with 12 different Burmese families.

"Everything is so different", said Don. "Their attitude is 'Live for today and let tomorrow take care of itself'".

Rice is the predominant food. According to Don, the Burmese sometimes eat it with a fish, chicken, beef, or pork curry to add flavor and seasoning.

The education system of Burma is patterned after that of Britain, said Don. Their first seven standards might be compared to our first eight grades. After three more standards and a test the student is ready for college.

Burma has two universities, both of which are filled to overflowing. In 1958 there was room to admit only three percent of the applicants.

Their university courses of study are similar to ours. The classes are taught in the English language because the technical terms can't be translated. As an example, Don cited that the Bible passage, "Jesus Wept," in Burmese is "And Jesus' tears did royally fall". There is no word in the Burmese language for wept and to say that Christ cried would make him too lowly.

The Burmese alphabet has 33 characters. The predominant religion is Buddhism.

Don wore the native dress, the longyo. This is two yards of cotton material with the ends sewn together. It is wrapped around ones lower half. With this, the Burmese wear shirts and blouses. Men and women, alike, wear this garment, the only difference being in the way they tie the fabric around themselves. Shoes are worn by the common folk only on lengthy walks. Then what we know as shower slippers are worn.

The women of Burma are habitual smokers, Don said. In fact, they smoke more often than the men. The most popular smoke among the women is the 'cheroot'. This is made by wrapping several layers of corn husks around a mixture of wood shavings and a small amount of tobacco. This cigar is about the size of an ear of corn and could easily pass for just that.

Commercially made cigars can also be had in Burma. Some of the cigars are of rolled green tree leaves and others are of tobacco. The young Burmese smoke just as frequently as the adults, Don explained.

Selection of an IFYE student begins with an application and an interview. The process of elimination continues through a state and a national committee. The selected people are then assigned to a country.

## Girl's Dorm Hours Extended For Ball

The Annual Charity Ball will be held Saturday, Jan. 30 from 9 to 12 p.m. in the Union Ballroom.

Paul Hanson's Orchestra will provide the music. The Halbeisen School of Dancing will furnish entertainment during intermission.

This semi-formal, girl-ask-boy affair is sponsored by the Panhellenic Council, campus sorority governing body.

"Jackfrost", theme of the ball, will be carried out in centerpieces and wall decorations. Refreshments will be served in the ballroom lounge by the Panhellenic Council.

Proceeds from the ball will be presented to a local charity. Tickets are \$2.00 a couple and may be purchased from sorority women.

The hours at Dinan Hall and Ceres Hall will be extended to 1:30 a.m. and 1:00 a.m. respectively.

## SC Gamma Deltans Attend Workshop

Eleven NDSC students, members of the Alpha Kappa Chapter of Gamma Delta, will attend a publicity workshop this weekend, Jan. 29 to 31, at the student Gamma Delta center in Minneapolis.

The students are: Alyce Puppe, Betty Trigelaff, Myrna Ueckert, Linda Wojohn, Pat Ring, Gloria Schmeling, Susan Weiser, George Serechal, Dale Sitz, Duane Saville and Wayne Tjaden.

The purpose of the workshop is to publicize the work of Gamma Delta.

Gamma Delta is an international organization for Lutheran students of the Synodical Conference.



New band uniforms are replacing the well-known green and yellow uniforms. Lea Tesch, Carolyn Roberts, and Don Pederson tried them on for fit and size. The double breasted uniforms, with a detachable shield for the front of the coat, are navy blue with gold trim. They have adjustable belts with gold buckles, stripes on the trouser legs, sleeve cuffs and a lyre on the lapels. The band will appear in their new uniforms for the first time during the annual band tour March 3-13.

# Off The Editor's Cuff

By Bob Thompson

For the last two weeks I have heard comments both pro and con on the issues brought out in the Spectrum. I would like to make these closing comments.

The purpose of the editorials was not to do away with IRC, debate, or judging teams; but rather to bring to the student body's attention the fact that Student Senate is not using common sense when spending our money. It is not the intention of the Spectrum to necessarily shed a bad light on the organizations.

When Senate spends \$5,878 over last year's appropriations and have used up this year's appropriations already, there must be something lacking in this organization. It stands to reason that they can't afford to help support anything else.

### 8 UND FRATERNITIES BOYCOTT FOLLIES

Beta Theta Pi, Delta Tau Delta, Kappa Sigma, Lambda Chi Alpha, Sigma Alpha Epsilon, Sigma Nu, Tau Kappa Epsilon and Theta Chi will not participate in Follies this year. They listed costs, time involved, and social pressures as the reasons. Many felt that Follies was getting too big. It's been said that the "U" isn't going to have Follies this year.

I would like to ask this question: Is there a trend by the fraternity and sorority systems towards less participation in extra-curricular activities and more participation in curricular activities; are fraternities and sororities deciding not to participate in every little was getting too big. Rumors are that Follies will be held.

### YMCA FILM SOCIETY

About 75 people attended the first showing of the Y Film Society—most of whom were faculty. These films give you some concept of the attitudes of people in other countries and the acting ability of the performers is quite good. All students are invited. The next showing is Sunday, 2:30 in room 319, Minard.

## Letter to the Editor

### President of IRC Replies

"Many politicians lay it down as a self evident proposition, that no people ought to be free till they are fit to use their freedom. The maxim is worthy of the fool in the old story, who resolved not to go into the water till he had learned to swim."—Thomas Macaulay. Last week you spoke of using the freedom of speech and press to speak up for something we think is wrong. Perhaps the words of Mr. Macaulay apply to your use of that "freedom". Perhaps not. But it seems to me that a person in your position has some really serious obligations.

First, it seems you should get the facts straight, and put them down that way. Next, I would suppose, you could apply a little "ethical discrimination." Your extreme freedom in your attacks (personal and otherwise) will have some very bad results. I don't think too many "university" professors would agree with you that "debate isn't worth \$600 a year." I am equally as convinced that voters around the state won't be very cooperative if you make one-sided attacks upon the judging team. Weighing the issues and deciding how to present them are very important when you are in the public eye.

You wonder what is wrong with the members of the debate team and I.R.C.? I wonder—when someone slaps you in the face, must you slap back? Perhaps those two organizations just "considered the source" and let it go at that. Furthermore, I think the letters written by members of the judging team covered the subject honestly and exactly.

My suggestion would be that you really look into the organizations around you (if you are determined to be a one-man investigating committee.) Visit the Saddle and Sirloin Club, the debate society, the I.R.C. and any others you suspect. If you find corruption, report it. But if you find some positive contributions being made, report those too. Weigh the good against the bad so that the students may have a fair chance to draw their own conclusions based on facts, not on prejudices, hunches and distorted interpretations. A good place to start would be

with those you have already distorted.

Don Nelson,  
President of IRC  
NDSC Student

### Blue Key Initiates 7 New Members

Blue Key, national honorary service fraternity, initiated seven members Thursday, Jan. 21. They are Jerry Stockman, Dean Forseth, Loren Hill, Don Bishof, Dick Berquist, Mike Brandvik and Jim Bergeron.

Members of Blue Key must have a 2.5 over-all honor point average. They must participate in campus activities and desire to do service to college and country. Membership is limited to juniors and seniors.

The most important Blue Key sponsored project is Bison Brevities which is held in the spring. Other projects include distribution of NDSC annuals to high schools, guiding tours around campus, sending student representatives to high school college days and ushering at many campus social events.

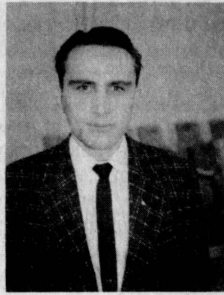
Blue Key was founded in 1922 at the University of Florida to help co-ordinate campus activities. It has grown to include 79 chapters in the United States.

# The Spectrum Asked:

## What do you think of the "Y" film classics?

Spectrum Photo Interview

By Mayo Flegg



Gary Longballa Jr., Biology  
Minneapolis

Darlene Knutson  
Soph., El. Ed.  
MSC, Fargo

Mike Stallings  
Soph., Bus. Econ.  
Fargo

Suellen Ringsak  
Jr., AAS

Wayne Hamann  
Soph., ME  
Dickinson, N. Dak.

Very good. I certainly would encourage every one to see them. They are different.

The acting was excellent. If you are tired of the ordinary run of movies, I recommend that you see these the 'Y' sponsors.

I enjoyed it very much and am looking forward to more of them. They give the college student a chance to see pictures of higher quality than are available elsewhere.

Grafton, N. Dak.  
Most entertaining — unique, well worth the cost. Glad I came today.

I like it very much not only because it was entertaining, but also because of its cultural aspects. It is a very relaxing way to spend a Sunday afternoon.

### Student Senate

## Rules Prepared for Senate Campaigns And Elections

#### ELECTION PROCEDURE

1. Candidates may pick up petitions on Monday, Jan. 25. These MUST BE RETURNED TO DEAN SEVRINSON'S OFFICE BY 5 P.M. FRIDAY, JAN. 29.

2. Campaigning begins Monday, Feb. 1 and ends midnight Sunday, Feb. 14.

#### QUALIFICATIONS

1. Each candidate must have maintained an overall average of 2.25 to be eligible for election. (This includes fall quarter 1959-60.)

2. THE CANDIDATE MUST ATTEND AT LEAST ONE SENATE MEETING BETWEEN JAN. 25 and FEB. 14.

3. The next Student Senate meeting will be held February 2 at 7 p.m., Room 101, Library.

4. All candidates for Student Body President must have maintained an overall 2.5 average. Including fall quarter 1959.

#### ELECTION RULES

1. The Student Union will be the only polling place and will be open Monday and Tuesday, February 15 and 16, 1960 from 7:30 a.m. to 5:00 p.m.

2. Election will be supervised by the Commission of Campus Affairs and its advisors.

3. Judges for the polling place will be selected by the Commission of Campus Affairs by the following criteria upon approval by Senate.

- 1. Student must be in good standing.
- 2. Student must not be a candidate for office.

3. Letters for volunteers will be sent to all fraternities, sororities, Vets Club and Independent Student Association.

4. Position of Candidates on ballot will be drawn for at the Commission of Campus Affairs meeting on Thursday, Feb. 11, 1960.

5. Ballots will be counted by the Commission of Campus Affairs in the presence of its advisor after 5 p.m. on Tuesday, Feb. 16, 1960.

6. All candidates for office must have attended at least one quarter of schooling at NDSC.

7. A plurality of at least 35% of the votes cast for President will elect the President.

In the event that more than three candidates run for the office of president and no one wins on the first ballot by the above specifications, the top three will run off on Friday, February 26, 1960. Same election rules will apply.

8. The top six vote getters for two year senate will be elected.

9. The top seven vote getters for one year senate will be elected. If a carry over senator should win the presidential election, one extra position will be created and filled by the next in line on the one year ballot.

#### POLLING PLACE RULES

1. Three judges will be at the polling place at all times.

2. Judges must have voters sign name, stamp ballot, and stamp activity card with a red ink stamp.

3. A three stage ballot will be used. Presidential candidates on

page 1, two year senate candidates on page 2, and one year senate candidates on page 3.

4. To make ballot sheet valid the voter must vote for the total number of vacancies open. 1 vote for president, 6 votes for 2 yr. senator, 7 votes for 1 yr. senator.

5. Ballots will be deposited in locked steel boxes and will not be opened until they are to be counted.

#### CAMPAIGNING

1. One poster per candidate per campus building.

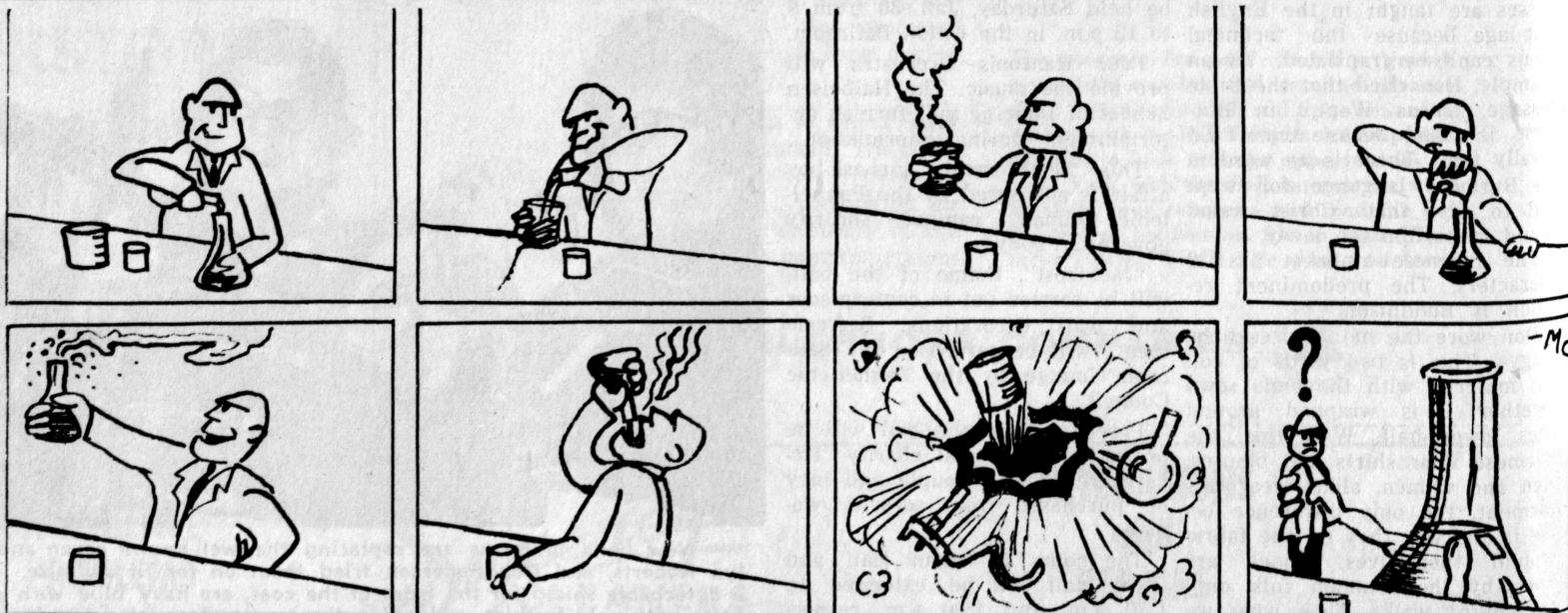
2. Responsibility of candidate to take outdoor displays down by 6 p.m. on Wednesday, February 17, 1960.

3. Loud speakers to be used only when class is not in session between the hours of 7:30 a.m. to 8:30 p.m. on Friday, February 12, 1960.

## Sharivar Pictures Due Next Wed.

Because of a delay in publication of the rules for the Sharivar Picture Contest, the deadline for the photo contest has been moved up until noon next Wednesday. You may leave them in the Spectrum office or Verne Nies' office on the fourth floor of Minard.

The editors are particularly interested in pictures that give an overall look at NDSC. First prize is \$15.



# Hi-Society

By Evanne Grommesh

Hear we girls in the dorms get a whole-great-big-exact half hour after the Charity on Saturday night . . . really got excited over it . . . I propose that dorm hours be extended an hour Sunday through Thursday . . . 12:00 . . . Friday and Saturday . . . 2:00 a.m. . . . 3:00 a.m. for special occasions like the Charity Ball . . . This is for Dinan . . .

Ceres . . . their hours of 10:00 and 12:30 are fine for fall quarter . . . every quarter after . . . extended 1/2 hour . . . This would eliminate all this staying off campus on the weekend . . . I can't see any possible reason for not changing the hours . . . if we girls have studying we can come in earlier . . .

I would especially like to see hours extended on weekends . . . if there is some big affair and you have to be in at 12:30 or 1:00 your date hardly has time to kiss you good-night at the door . . . course it's usually so crowded you hardly have a place to stand . . . fellas if you've never taken a dorm girl out . . . do it now . . . don't miss this bit of college life . . .

Back to the Charity Ball . . . to my dismay . . . I hear it's formal . . . so dress up a bit more than usual . . . your dates don't wear tuxedos . . . not that formal . . . dance starts at 8 . . .

Theta Chi term party Friday night at Elks Club . . . their sweetheart will be chosen . . .

Also on Friday night . . . Bison play SD State at Field House . . . time is 8 . . .

Laurel and Hardy film and Italian film "Nights of Cariria" at Minard . . . Sunday at 2:30 p.m.

Say . . . is there anything to that rumor that the Kingston Trio is going to be in Minneapolis next weekend . . . or the next?

Three pinnings to announce . . . Theta Sandy Christian-son and TKE Rodney Foss . . . Pat Olstad and ATO Don Remillong . . . and . . . Ron Lawrence, TKE prexy and Mary Lou Butler of Parshal.

The Little Sisters of Minerva have a new member . . . KD Gloria Eissenger.

The Kappa Deltis have a guest this week, Mrs. Josef Smith of Wis. . . . KD Province president.

Tom Myhre, chairman of Stockbridge's dorm party last week, tells me it was a real ball and a big success . . . My second proposal today . . . All dorms should have this each quarter . . .

And more pledges at the TKE house . . . Ralph Zainhofsky, Towner, Raymond Jutila, Kintyre and Lowell Schellack, Glyndon.



## Special Attractions Add Comedy To Little International

The co-ed cow milking contest, calf tying contest, barber shop quartet, and two clowns are the special events scheduled for the 1960 Little International which is to be held Feb. 6 at 7:30 p.m.

The cow milking contest, consists of two co-eds per entered sorority and a not too cooperative cow. The couple that gets the most milk within a certain time limit wins the trophy.

The men's organizations on campus are represented by the president and secretary from each group in the calf tying contest. It is often hard to tell whether the calves or the contestants are winning in such an event.

The clowns will be carrying on in a typically funny way to give the audience a few good laughs.

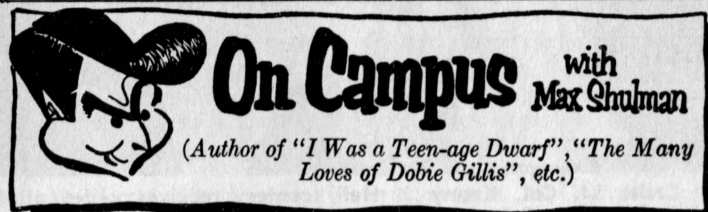
These events will be fitted into the evening's program for your entertainment and will give the showmen needed time to remove finished classes from the ring and bring in other animals.

## AWS Urges Coeds To Hear Candidates

Women candidates for Student Senate may present their platforms at a mass meeting of Associated Women Students at 7 p.m. Feb. 4 in Ceres Hall parlors. The group will vote for three candidates whom they will support. Five dollars is being given to the selected candidates for their campaign.

Pictures of the council of representatives will be taken for the annual at 6:45 p.m.

## Attend Little International



### APPAREL OFT PROCLAIMS THE MAN

The hounds of spring are on winter's traces. Soon we will be shedding our mukluks and union suits and putting on our spring finery. And what does Dame Fashion decree for the coming season?

(Dame Fashion, incidentally, is not, as many people believe, a fictitious character. She was a real Englishwoman who lived in Elizabethan times and, indeed, England is greatly in her debt. During the invasion of the Spanish Armada, Dame Fashion—not yet a Dame but a mere, unlettered country lass named Becky Sharp—during the invasion, I say, of the Spanish Armada, this dauntless girl stood on the white cliffs of Dover and turned the tide of battle by rallying the sagging morale of the British fleet with this stirring poem of her own composition:

*Don't be gutless,  
Men of Britain.  
Swing your cullass,  
We ain't quittin'.  
  
Smash the Spanish,  
Sink their boats,  
Make 'em vanish,  
Like a horse makes oats.*

*For Good Queen Bess,  
Good sirs, you gotta  
Make a mess  
Of that Armada.*

*You won't fail!  
Knock 'em flat!  
Then we'll drink ale  
And stuff like that.*



*... In 1589 she invented the egg...*

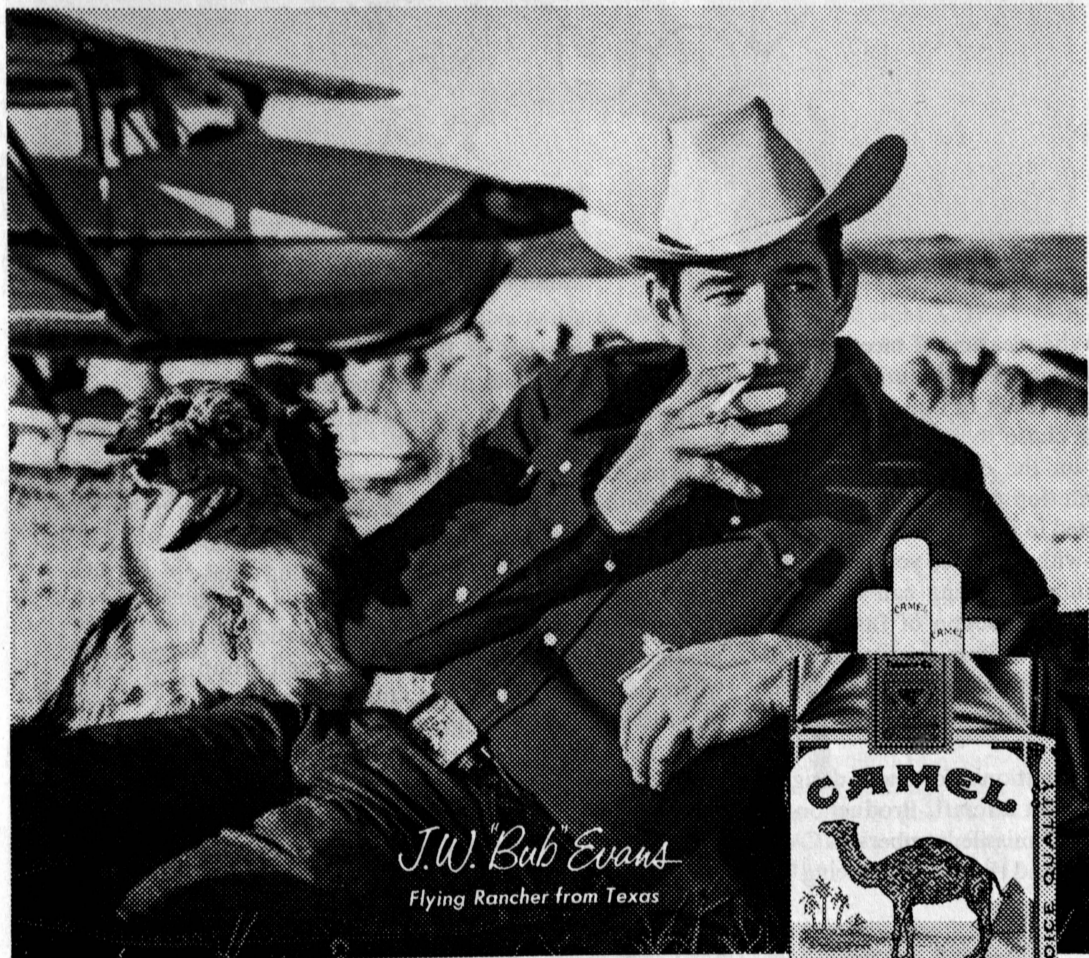
As a reward for these inspirational verses Queen Elizabeth dubbed her a Dame, made her poet laureate, and gave her the Western Hemisphere except Duluth. But this was not the extent of Dame Fashion's services to queen and country. In 1589 she invented the egg. In 1590, alas, she was arrested for poaching and imprisoned for thirty years in a butt of malmsey. This later became known as Guy Fawkes Day).

But I digress. Let us get back to spring fashions. Certain to be popular again this year is the cardigan (which, curiously enough, was named after Lord Cardigan, who commanded the English fleet against the Spanish Armada. The sweater is only one product of this fertile Briton's imagination. He also invented the ball-peen hammer, the gerund, and the molar, without which chewing, as we know it today, would not be possible).

But I digress. The cardigan, I say, will be back, which is cause for rejoicing. Why? Because the cardigan has nice big pockets in which to carry your Marlboro Cigarettes—and that, good buddies, is ample reason for celebration. Do you think flavor went out when filters came in? If so, you've got another smoke coming. I mean Marlboros—all the rich, smooth flavor of prime tobaccos plus a filter that really filters. So slip into your cardigan and hie yourself to your tobacconist for some good Marlboros. They come in soft pack or flip-top box. Cardigans come in pink for girls and blue for boys. © 1960 Max Shulman

*If you're a filter smoker, try Marlboros. If you're a non-filter smoker, try Philip Morris. If you're a television watcher try Max Shulman's "The Many Loves of Dobie Gillis"—Tuesday nights, CBS.*

## Have a real cigarette—have a CAMEL



*J.W. "Bub" Evans  
Flying Rancher from Texas*

**The best tobacco makes the best smoke!**

R. J. Reynolds Tobacco Co., Winston-Salem, N. C.



**Drycleaning As You Like It  
One Day Shirt Laundry Service  
Serving the College Students for 22 Years**



**Across The Campus  
From NDAC  
Open Till 8 p.m. Every Evening**



Cadet Lt. Col. Kenny J. Heil, center, receives cadet pilot wings from Lt. Col. Joseph W. Mitchell, Jr., at the left. Instructor Lew Axford, stands at the right. Heil, an Arch. Eng. Sr., is the first cadet to complete the course this year. Cadet Capt. Edison T. Colwell, Ag., also received this award.

## Ten Home Ec Seniors Leave For Five Weeks of Teaching

Ten home economics seniors at NDSC are student teaching in high school home economics departments for five weeks beginning Jan. 25.

Janis Faye Olson of Halstad, Minn., and Glorian Hieb of McClusky are student teaching in Jamestown; Audrey Holte of Voltaire and Alita Dardis of Nortonville are at Dickinson; Karen Zielsdorf of Dickinson is teaching at Mandan.

Doris Folstrom of St. Paul, Minn., and Yvonne Wittmer of Elgin are student teaching in Wahpeton. Joan Nelson of LaMoure is teaching at Lisbon and Laurene Haugland of Crosby is at West Fargo. Nancy Carver of Wyndmere is student teaching at Detroit Lakes, Minn.

Mrs. Esther Bloedau of Mott is the NDSC student teacher supervisor at Dickinson and Mandan. The college supervisor at the

## Board Of Ed. Hosts Conference Jan. 23 For Elem. Teachers

An elementary teachers guidance conference was held in Bismarck on Jan. 23, sponsored by the Bismarck Board of Education and the NDSC.

The conference was held in the Bismarck Junior College for teachers in Bismarck, Mandan and the surrounding area.

Heading the conference was Dr. Robert E. Larson, associate professor of education, and Dr. Garry R. Walz, assistant professor of guidance and coordinator of counselor education, both of NDSC department of education, and Mr. James Mathisen, state director of guidance services of North Dakota.

Pupil reporting and parent conferences, the elementary guidance programs, and meeting the needs of special pupils—the gifted, the emotionally handicapped and the underachievers, were the topics discussed in the conference.

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## SC Judging Team Leaves For Contest

The senior livestock judging team left for Fort Wayne, Texas, Jan. 24, to compete in the stock show there. This is the second time this month that SC judges will be in national competition.

Team members are: James Carr, Ag., Jr.; Dalmon Larson, Ag. Jr.; Gerald Schnell, Ag. Sr.; James Magill, Ag. Jr.; Michael Brandvik, Ag. Jr.; and Menry Singer, Ag. Jr. They are coached by Merle Light of the animal husbandry department.

Some of the places that the team will visit are the Perry McClone Ranch, The Staley Farm, at Kansas State College, Sutton Ranch in Kansas, where they will work out on quarterhorses, and Oklahoma State, and the Turner Ranch.

## YMCA Society Sponsors Sunday Afternoon Films

The following films will be shown by the NDSC YMCA Film Society. They will be shown in Minard Hall, room 319, the new theatre lecture room, Sunday afternoons at 2:30 p.m. Last week's film, which was enjoyed by many, was "Pantomime and Drama."

Jan. 31 — Comedy Program — "The County Hospital" (Laurel and Hardy) and "Nights of Cabiria", Italian film by creator of La Strada.

Feb. 7—Political Science — Film History — "The History of the Cinema", (short subject) and Drama, "Fame is the Spur." Outstanding British film.

Feb. 14—Comedy Program—"Pacific" (short subject) "Gates of

Paris" feature film. French film. Feb. 21 — Comedy Program — "Martin and Gaston", short subject and "Beauty and The Devil" feature in satire of the Faust Legend.

Feb. 28—Psychological Drama Horror: Surrealism—"Un Chien Andalou" French short subject; "This Strange Passion" Mexico film directed by Louis Bunnel.

March 6—Melodrama—Comedy —"The Gentlemen in Room 6" (British) and "The Informer" outstanding U. S. Film.

March 13—Comedy Program—"The Fatal Glass of Beer" (W. C. Fields) and "Holiday for Henrietta", French film.

Engineers!

Scientists!

WE'RE LOOKING FORWARD TO MEETING YOU



Last year we had the pleasure of meeting many engineering and science seniors during our visit to the campus. As a result of our discussions, a gratifying number chose to join our company.

We'll be back on the dates below, and this notice is your invitation to come in and see us.

If you're interested in joining a company that's a leader in fields-with-a-future, you'll be interested in the advantages Boeing can offer you. Boeing is in volume production of Bomarc, the nation's longest range defense missile, and is a prime contractor on Minuteman, an advanced solid-propellant intercontinental ballistic missile system.

Boeing is also the nation's foremost designer and builder of multi-jet aircraft. Production includes eight-jet B-52G missile bombers, KC-135 jet transport-tankers and the famous Boeing 707 jet airliner.

Research projects at Boeing include celestial mechanics, solid state physics, nuclear and plasma physics, advanced propulsion systems, and space flight.

Expanding programs offer exceptional career opportunities to holders of B.S., M.S. and Ph.D. degrees in aeronautical, mechanical, civil (structures), electrical-electronic and welding engineering, and in engineering mechanics, engineering physics as well as in mathematics and physics. At Boeing you'll work in a small group where individual ability and initiative get plenty of visibility. You'll enjoy many other advantages, including an opportunity to take graduate studies at company expense to help you get ahead faster.

We hope you'll arrange an interview through your Placement Office. We're looking forward to meeting you.

WEDNESDAY, THURSDAY AND FRIDAY

FEBRUARY 3, 4 and 5

**BOEING**

Seattle • Wichita • Cape Canaveral, Florida

# Summer Institute Receives Donation

Approximately \$130,000.00 is to be given to NDSC to establish a counseling and guidance institute. The Summer Institute will be held July 25 to Sept. 2. Twenty-five applicants will be selected from the more than 300 applications expected. Applicants must be from North Dakota or Minnesota.

The purpose of the institute is to improve the quality and skill of both present and potential high school counselors.

The counselors attending will be paid \$75.00 per week plus \$15.00 per dependent.

According to Lawrence G. Der-

thick, U. S. Commissioner of Education, NDSC is one of 83 such institutes. These institutes were authorized under the National Defense Education Act.

The summer session will be directed by Garry R. Walz, Coordinator of Counseling and Education, here at NDSC. The staff includes Robert E. Larson, Associate Professor of Education, also

of NDSC. Six additional consultants and instructors will complete the staff.

Highlights of the institute will include two outstanding speakers, Dr. Edward Roeber, University of Michigan and Dr. Merle Ohlsen, University of Illinois. Both are Directors of Counseling and Education at their respective institutions.

## NOTICES

**ISA**  
I.S.A. will have a variety party Monday, Feb. 1, 7:30 p.m. in Meinecke Lounge. The party will consist of charades, cards and mixers. Remember—get your date for the term party Sat., Feb. 13.

**ENGINEER & PHARM. WIVES**  
There will be a joint meeting of all NDSC Engineer and Pharmacy student wives clubs, Feb. 2,

1960 in the Student Union Ballroom 8:00 p.m.

Dr. Wayne Labien will be the guest speaker who will talk on "The Usual Emotional Disturbances in Children."

Following the lecture there will be a social hour. All Engineer and Pharmacy students and faculty are welcome to bring their friends.

### Cadets At SAC Base

Forty-one Air Force ROTC Cadets and Captain James Fregia, ROTC instructor, flew to the Ellsworth Air Base near Rapid City, S. D. recently. The cadets saw the modern operations of SAC, Strategic Air Command of the Air Force.

### AF Medical Specialist Corps Offers Therapeutic And Dietetic Training

The Air Force Medical Specialist Corps is now offering a program of special training for young women interested in a career in dietetics, occupational or physical therapy.

The Air Force will sponsor students for a 12-month dietetic internship; 12-month occupational/physical therapist training; or senior college year occupational and physical therapist schooling.

To qualify for either the dietetic or 12-month occupational and physical therapist training, you must possess a BA degree and have been accepted for one of the training programs at an approved institution.

Young women who have completed their junior year in a course leading to a BA in occupational or physical therapy, and have been accepted for their senior year may apply for occupational or physical therapy training.

All applicants must be single American citizens, between 21 and 26 years old.

If accepted, trainees will be appointed 2nd Lt. in the Air Force and paid full 2nd Lt. pay, \$338.58 per month, while attending school. From this pay, the student will pay all expenses, including tuition.

One SC student, Margaret Ranger, HE Sr., is already participating in the program.

At the successful completion of schooling, the student will be required to serve a minimum of two years at Air Force hospitals. Students will be given their uniform allowance before reporting to their first duty station and will attend the medical orientation school at Gunter AFB, Alabama.

For further information you may contact Capt. Mary A. Tonne, Nurse and MSPC Selection Officer, Room 107-C, Federal Office Bldg., Mpls. 1, Minn.

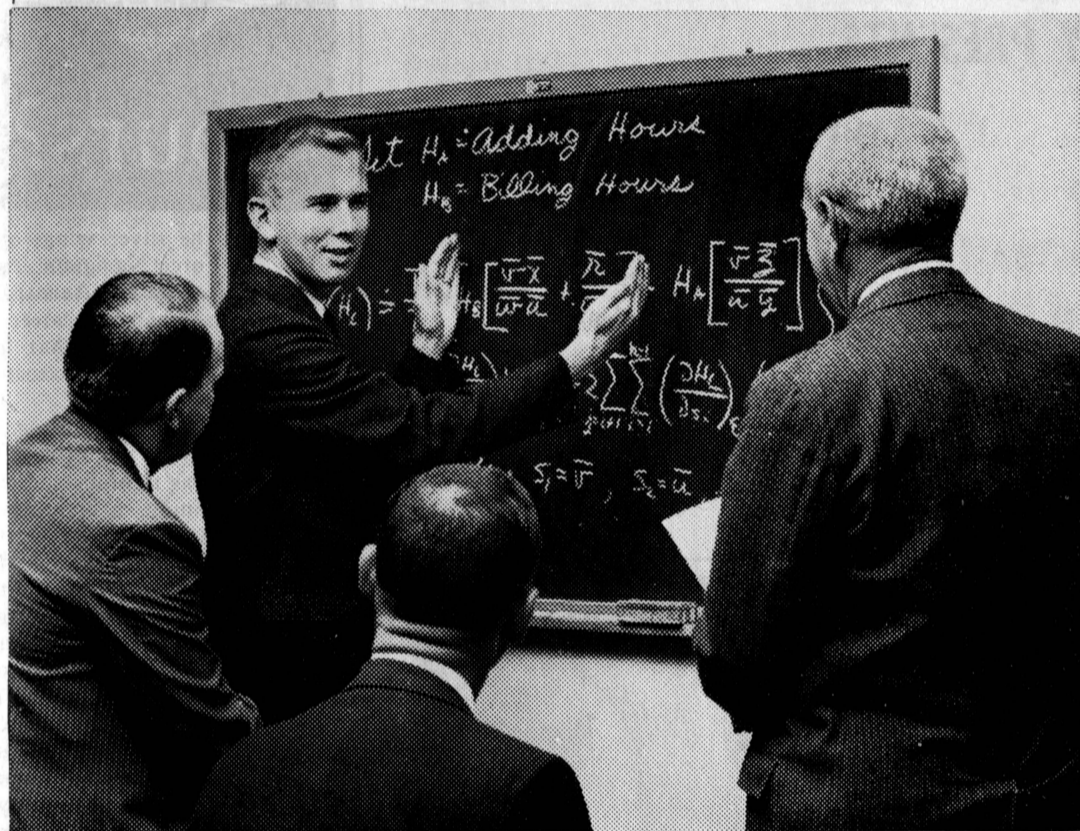
### Students To Teach

Ten NDSC Agricultural Education seniors will begin practice teaching February 1.

The students will practice teach for six weeks at six North Dakota high schools.

Students and assignments are: Dennis Wold and James Well, Devils Lake; Garnet Blouin and Willis Hanna, Wyndmere; Terry Colwell and Dennis Hess, Valley City; Howard Guenther and Larry Selland, Wahpeton; Leonard Paulus, Medina; and Edmund Bernhardtson, Kindred.

### A Campus-to-Career Case History



Ken Murphy meets with Revenue Accounting people to discuss a new statistical formula. This will be used to proportion the billing time spent on interstate and intrastate Long Distance calls.

### He's making math and telephones add up to a fine business career

During his senior year in college, math major Kendall T. Murphy had job interviews with several firms, but none of them appealed to him. "I wasn't interested in doing pure mathematics," he says. "I wanted to apply math and statistics to everyday business problems and have management responsibilities, too."

At a professor's suggestion, Ken talked with a Bell System representative and was "surprised to learn how many practical applications statistics had in telephone company operations." The thorough and varied training program and opportunities to advance as a member of management also impressed him.

Ken joined the Pacific Telephone and Telegraph Company at Sacramento, Cali-

fornia, in June, 1956. Two years of rotational training familiarized him with company equipment, services and commercial procedures. Then he was assigned to the Chief Statistician's Office in San Francisco.

Today, as a Staff Statistician, Ken is applying his math background to a variety of statistical studies dealing with: rates and revenue, inventory and obsolescence of equipment, customer opinion, personnel administration, quality control and auditing.

"This is a big, fast-growing business," says Ken, "and I feel I'm helping it operate more efficiently every day. That's a mighty satisfying way to put my college education to work."

Ken Murphy got his B.A. in Mathematics from the University of California's Santa Barbara College in 1956. He's one of many young men building interesting careers in the Bell Telephone Companies. There could be one for you, too. Be sure to talk it over with the Bell interviewer when he visits your campus.



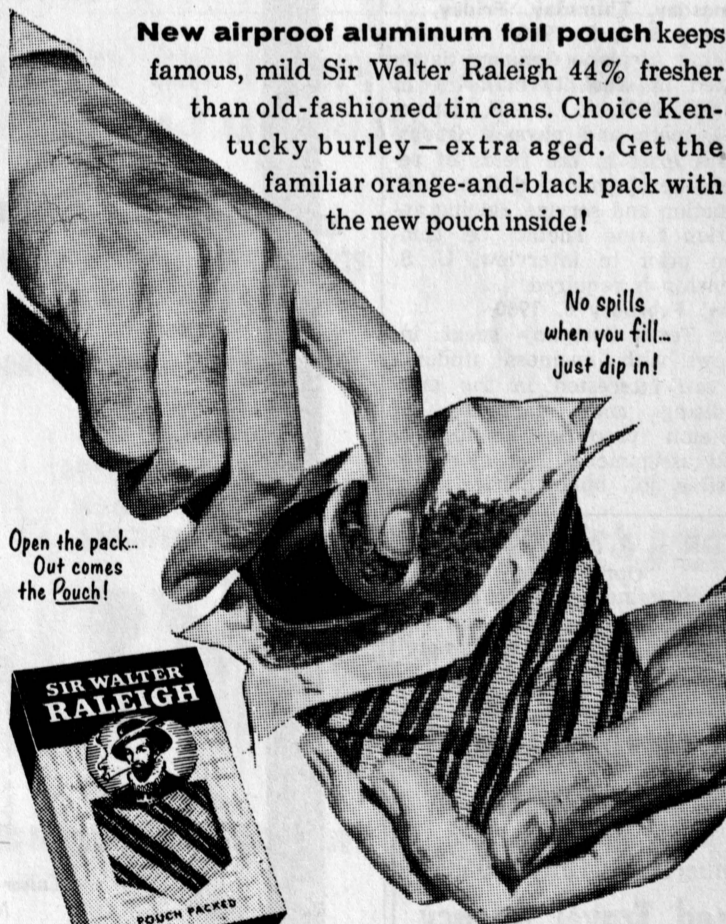
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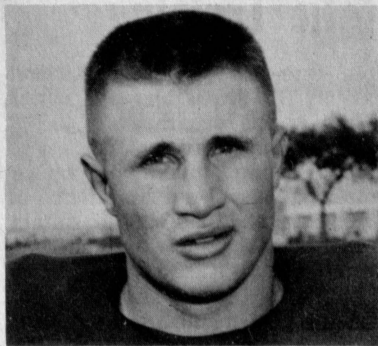


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# Athlete of the Week



Dale Hinkle was elected Athlete of the Week by his teammates. He

has been out for football four years, earning three letters in that time. He has also been on the wrestling team two years and is this year's captain of the varsity squad.

Wrestling in the 160 lb. class, Dale has won six matches and lost two this season. As captain, he sets a fine example for others to follow by working out after practices to perfect his wrestling skills.

According to Coach Tom Neuberger, "Dale is not particularly skillful as a wrestler because this is only his second year in the sport, but he has the tremendous desire and strength to win. Dale is the most successful wrestler on this year's varsity team."

Dale is majoring in mechanical agriculture. Some of his other activities include National Guard, flying and proctoring at Stockbridge Hall.

Mr. Neuberger also stated that, "When NDSC athletic team members consist of kids of the caliber of Dale Hinkle, we will be successful almost every time we step into competition."

# Annual Billiards Tourney Begins Monday At Union

The annual local billiards tournament will begin here at noon Monday. This is the first round in the Association of College Unions National Billiards Tournament.

The tournament is open to all persons except those not making their average last quarter. Any person interested in entering this tournament must register in the game room of the Memorial Union prior to Monday noon.

All matches must be played between 10 a.m. and 5 p.m. and must be completed before 4:30 p.m. on Friday, February 5. Students participating in the tourney will have billiard table priority. There is no entry fee and local trophies will be given.

The tournament will consist of 4 divisions. These are pocket bil-

liards, three-cushion billiards, straight-rail billiards, and co-ed billiards. Players qualifying first or second in each division are eligible to compete in the National Collegiate Air-Mail Tournament. This may develop into a trip to the National Intercollegiate Face-to-Face Billiards Tournament at Purdue University on April 6-7, 1960.

Last year Bob Konklin and Orv Kelly represented our school in the regional tournament. Orv Kelly went on to place second in the overall national tournament for which he received trophies, a pool cue, and many national magazine writeups.

For further information contact the game room in the Union for official rules and regulations.

# NDSC Wrestlers Set Game For Benefit

By Roger Helgoe  
Sports Writer

A benefit wrestling match will be held in the NDSC Fieldhouse on Monday, February 8 at 8:00 p.m. between the freshmen and varsity wrestling teams of North Dakota State.

Larry Roehl, a freshman heavy-weight wrestler from Brooklyn Center drowned in the Mississippi river last summer. Last fall Larry's brother, Mike, sustained a serious injury playing football, and is still confined to a hospital bed. He is paralyzed from the neck down.

No admission will be charged, but all donations will go to the family to assist in paying hospital expenses.

Coach Tom Neuberger stated that the match will be managed by Dale Hinkle and Mike Bewley, respective captains of the varsity and freshmen teams. The lineups will appear in the next week's Spectrum.

## Placement Service

Monday, February 1, 1960

S. C. Johnson & Son, Inc., Racine, Wisconsin, manufacturers of wax and allied products, seeks interviews with chemistry students at all degree levels for employment in applied research, basic research, experimental engineering and development and technical service.

Monday, Tuesday, February 1 & 2, 1960

Allis Chalmers Mfg. Co. is primarily interested in interviewing M.E., E.E., and Ag.E. for applicants in their graduate training program. They will be looking for students interested in engineering, sales, service, manufacturing, research and tractors.

Monday, Tuesday, Wednesday February 1, 2, 3, 1960

Remington Rand Univac wishes to interview E.E. to fill positions as development engineers in the field of computing and data processing. Openings also exist for those E.E. interested in computer installation and maintenance.

Wednesday, February 3, 1960

Pratt & Whitney Aircraft Corp. wishes to interview Aero E., and M.E. and physicists at all degree levels. They offer positions in analytical, design, experimental, materials and installation engineering. Appointments for United Aircraft Corporation Missiles & space systems division can be arranged on P&W's interview schedule.

Wednesday, Thursday, Friday, February 3, 4, 5, 1960

Boeing Airplane Company is interested in students majoring in Aero E., M.E., E.E., C.E., (structures), math and physics. Opportunities exist in the fields of research, development, design, test, production and service. Boeing application forms should be completed prior to interview. U. S. citizenship is required.

Friday, February 5, 1960

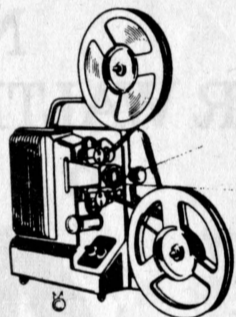
The Texas Company seeks interviews with business students who are interested in the merchandising and marketing of petroleum products leading to varied assignments and more responsible job opportunities.

## THE SPECTRUM

The Spectrum is published every Friday at Fargo, North Dakota by the NDSC Board of Publications, State College Station, Fargo, N. D. Subscription rate \$1.00 per term.

Entered as second class matter, December 10, 1945, at the Post Office at Fargo, North Dakota, under the act of March 3, 1879.

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If you think you have what it takes to earn the silver wings of an Air Force Navigator, see your local Air Force Recruiter. Ask him about Aviation Cadet Navigator training and the benefits which are available to a flying officer in the Air Force. Or fill in and mail this coupon.

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COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

# Five Remain Undefeated

The first half of the Intramural basketball season came to an end last week with the top teams in all five brackets remaining undefeated. Following are the final standings:

Bracket No. 1	
W	L
Student Body No. 3	5
ATO No. 2	4
TKE No. 2	3
Farm House	3
SAE No. 2	2
YMCA	1
Coop No. 2	1

Bracket No. 2	
W	L
Kappa Psi No. 1	5
SAE No. 3	5
AGR No. 2	2
ASCE	2
Vets Club	2
ATO No. 3	2
Churchill Hall No. 2	0

Bracket No. 3	
W	L
SAE	5
Theta Chi No. 1	4
Churchill Hall No. 2	3
Coop No. 1	3
Gamma Delta	2
SPD	1
Stockbridge No. 2	0
Kappa Psi No. 2	0

Bracket No. 4	
W	L
ATO No. 1	5
Newman Club	5
SAE No. 4	4
Stockbridge No. 1	3
Dakota Hall No. 2	2
Sigma Chi	1
Theta Chi No. 2	1
Agron Club	0

Bracket No. 5	
W	L
Student Body No. 2	5
TKE No. 1	4
Dakota Hall No. 1	4

AGR No. 1	3	2
Finnegan Hall	2	4
Student Body No. 1	0	3
SAE No. 5	0	5

In the second half of the season the teams will be placed in different brackets according to their first half season's record. This arrangement will enable the better teams to play each other and make the games more interesting while the weaker teams will play against teams of their own caliber. Following are the four new brackets:

Bracket No. 1	
W	L
Student Body No. 3	0
SAE No. 1	0
SAE No. 3	3
ATO No. 1	3
Student Body No. 2	4
Newman Club	2
Kappa Psi No. 1	4

Bracket No. 2	
W	L
Theta Chi No. 1	0
TKE No. 1	2
Dakota Hall No. 1	3
SAE No. 4	3
ATO No. 2	3
Churchill No. 1	2
Stockbridge No. 1	3

Bracket No. 3	
W	L
Farm House	0
TKE No. 2	0
Coop No. 1	0
AGR No. 1	2
Finnegan Hall	3
SAE No. 2	2
Gamma Delta	3

Bracket No. 4	
W	L
AGR No. 2	0
ASCE	5
Dakota Hall No. 2	0
Vets Club	2
ATO No. 3	2

YMCA	0
Coop No. 2	0

Bracket No. 5	
W	L
SPD	0
Sigma Chi	0
Theta Chi No. 2	0
Agron Club	0
Student Body No. 1	0
Stockbridge No. 2	0
Kappa Psi No. 2	0

## Bowling Team Leaves on 3-State Trip

The North Dakota State College bowling team is scheduled to make a five match, tri-state bowling trip today. They will compete with teams in two leagues.

The teams they will meet are: Wahpeton Science, Mankato State, LaCrosse State, St. Mary's of Winona, and the University of Minnesota.

Wahpeton is in the Louis Strack League and the remaining four teams are in the Region Seven League. North Dakota State is presently on top of the Louis Strack League and stand in third place of the Region Seven League.

According to coach Gordy Teigen, the team members making the trip will be Chuck Frantz, Chuck Hernet, Stan Sweet, Jerry Lingen, and Gerald Baranick.

## Lawrence Elected Ski Club President

Duane Lawrence was recently elected president of the NDSC Ski Club. Other officers elected at the meeting were Bruce Stone, vice president and Don Brenner, secretary treasurer.

The object of the Ski Club is to promote and organize skiing on this campus. The club makes it possible, for anyone interested, to take weekend trips to the local ski areas.

# BISON BITS

By Sherry Bassin

The Iowa State Teachers College Panthers retained sole possession of fourth place last week by thumping our North Dakota State College Bison 85-62.

The Panthers, playing before a partisan Iowa crowd, were out to prove to their hometowners that the pre-season prognosticators

who picked them as an NCC threat were not wrong.

It was a bad night as far as our Bison were concerned. One of those unexplainably bad nights that nothing can really be done about.

Marv Bachmeier and sophomore forward Clyde Payne were the only two players to score in the double figures for the losers. Bachmeier netted 25 points and Payne came through with 10.

For ISTC it was "highly praised" Dean Jensen leading the scorers by finding the basket for a total of 23 points.

Tonight at the fieldhouse the Bison will face the undefeated South Dakota State Jackrabbits in a game that may decide the future NCC standing of both teams.

The Bison who are fighting to regain fourth place in the NCC will be out to try and capture a victory. Also, the Bison will have revenge in mind for the 89-59 walloping they received from the Rabbits in Vermillion a few weeks ago.

The Jackrabbits will come to town with an undefeated record in the NCC and will likely have no intention of relinquishing such a record.

Thus, when the teams return to the hardwood courts tonight it will be a game that will feature a team bent on revenge against an undefeated team.

HERE AND THERE . . . On Monday, Feb. 8, the freshmen wrestling team will wrestle the varsity team in a benefit match. There will be no admission charged and the donations will be strictly up to the individual. Neuberger feels that his freshman and varsity teams are closely matched and this promises to be a good meet. This week the Bison wrestling team will host a triangular meet between Moorhead, Valley City, and the University of Saskatchewan. The first match is tomorrow morning at 10:30 . . . Also tomorrow, the Bison basketball team will face MSC at Concordia at 7:00 p.m.

## Scoreboard

NCC STANDINGS			
	W	L	Pct.
S. D. State	5	0	1.000
S. Dakota U	5	0	.833
Augustana	4	2	.667
Iowa Teachers	2	3	.400
N. Dakota S.	1	4	.200
N. Dakota U.	1	4	.200
Morningside	0	4	.000

LAST WEEK'S RESULTS	
ISTC 85—NDSC 62	
S. D. State 74—Morningside 63	

INTRAMURAL BASKETBALL SCORES	
Churchill Hall No. 1	42—Theta Chi No. 1 37.
Dakota Hall No. 1	53—Finnegan Hall 36.
Student Body No. 3	42—Farm House 31.

Dakota Hall No. 2	36—SAE No. 2 28.
Kappa Psi No. 1	59—ASCE 26.
AGR No. 2	30—ASCE 20.
ATO No. 1	43—Newman Club 34.
Dakota Hall No. 1	Won—SAE No. 5 Forfeit.
Coop No. 1	49—SPD 24.
SAE No. 3	52—Vets Club 20.
Finnegan Hall	32—TKE No. 1 31.
SAE No. 4	Won—Stockbridge No. 1 Forfeit.
Theta Chi No. 2	37—Agronomy Club 26.
SAE No. 1	Won—Stockbridge No. 2 Forfeit.
Theta Chi No. 2	30—Sigma Chi 29.
ATO No. 2	32—YMCA 26.
SPD	18—Kappa Psi 17.

INTRAMURAL PING PONG STANDINGS			
Bracket No. 1		W	L
SAE		2	0
Farm House No. 1		1	0
Dakota Hall		1	1
Theta Chi		1	1
Coop House		0	1
ATO No. 1		0	2
TKE		0	2

Bracket No. 2		W	L
AGR		2	0
Finnegan Hall		2	0
Kappa Psi		1	1
ATO No. 2		0	1
Farm House		0	2
SPD		0	2
Stockbridge		0	0

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CAMPUS

# INTERVIEWS

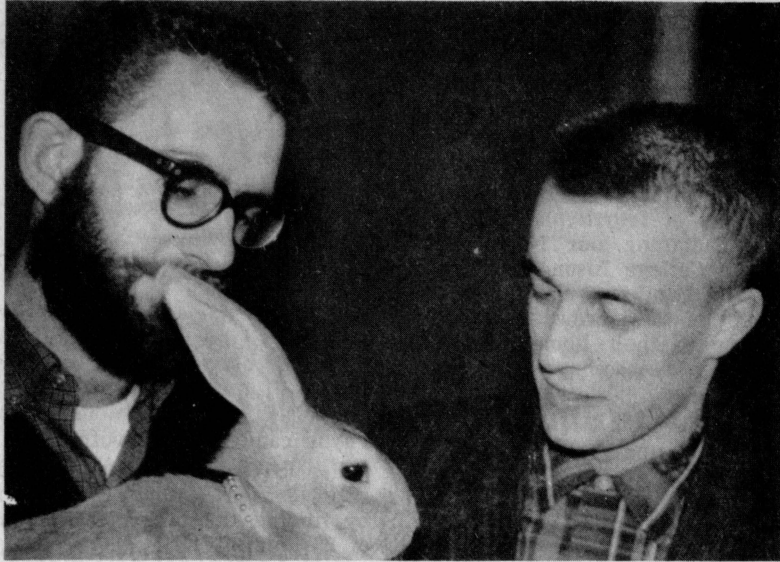
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"Sorry, buddy, your discharge papers will have to be checked before joining up." Dennis Maxson, at right, is a little reluctant about having Kitty Merrill's pet rabbit, Buzz, join the Vet's club. The rabbit is being held by member A. P. Retzlaff.

## Coffee Hour Held For Honor Students

Senior Staff and Blue Key held the second annual Scholarship Recognition Coffee Hour recently in Meinecke Lounge to honor the 92 fall quarter honor roll students.

Dr. Alfred E. Rheineck, Professor in Chemistry, spoke briefly on the opportunities for graduate studies in Chemistry.

The special guests were Dr. and Mrs. Fred S. Hultz, Dean and Mrs. Charles A. Sevrinson, Dr. and Mrs. Ralph E. Dunbar, Dean Matilda B. Thompson, and Mr. and Mrs. Van Vlissingen.

Senior Staff is a honorary service organization for senior women. Blue Key is a national service honorary for men on campus.

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NORTH DAKOTA STATE COLLEGE  
FARGO, NORTH DAKOTA

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## Scholarships For SC Women Announced

March 15 has been announced as the deadline for scholarship applications which are offered to NDSC women students through the office of the Dean of Women, Matilda B. Thompson. Women students from any school on the campus may apply for the following scholarships: NDSC Faculty Woman's Club; NDSC College Panhellenic; Jessamine Slaughter Burgum Scholarship; Gamma Phi Beta Memorial; Kappa Kappa Gamma Alumnae; P.E.O. Floy Lowell Memorial; NDSC Senior Staff. Information and application blanks for these scholarships may be obtained at the Dean of Women's office. Several of these awards ranging in value from \$50.00 to \$135.00 are made possible by various campus organizations.

Panhellenic groups have scholarship programs for members and in some cases for others also. Information and application blanks for these scholarships may be obtained from the scholarship chairman of each group or at the Dean of Women's office. There are also several scholarships for women available in the various schools of the campus. Information and application blanks for these scholarships may be obtained from the Dean of the particular school.

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WILL CONDUCT ON-CAMPUS INTERVIEWS FEBRUARY 11 AND 12

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 <b>Nuclear power at the Atomics International Division</b> <small>(Canoga Park, California)</small>	<p><b>Atomics International</b>, located in the San Fernando Valley of Southern California, is a leader in the development and manufacture of nuclear reactors for power, research, and mobile systems. Two proven AI power reactor concepts are now under construction. Atomics International is building a Sodium</p>	<p>Graphite Reactor for the Consumers Public Power District of Nebraska and an Organic Power Reactor at Piqua, Ohio. AI also is engaged in extensive research activities to develop improved materials for fuel elements and reactor components.</p>
 <b>Electronics &amp; electromechanics at the Autonetics Division</b> <small>(Downey, California)</small>	<p><b>Autonetics</b>, a leader in the field of electronics, is engaged in research, development, and manufacture of Computers, Inertial Guidance, Armament Control and Flight Control Systems. Autonetics designed and built the inertial navigation system for the USS Nautilus and Skate; the first, completely auto-</p>	<p>matic landing system for supersonic missiles and aircraft; the first, general purpose, all-transistor, digital computer. It is now at work on the inertial navigation system for the first nuclear-powered Polaris-carrying submarines and the guidance and control systems for the Minuteman and GAM-77 missiles.</p>
 <b>Naval aircraft &amp; missiles at the Columbus Division</b> <small>(Columbus, Ohio)</small>	<p><b>The Columbus Division</b>, designed and built the Navy's T2J Buckeye, America's most versatile jet trainer which will train today's jet cadets to command tomorrow's manned weapons systems, and the Navy's supersonic, all-weather A3J Vigilante, today's most versatile manned weapons system. Advanced</p>	<p>design studies now underway at the Columbus Division include undersea, land, and air weapons systems for all Military Services. Current studies include ASW, missiles, ECM, intercept aircraft, electronics systems, VTOL-STOL, ground support equipment, and other still confidential programs.</p>
 <b>Design &amp; development of manned weapon systems at the Los Angeles Division</b> <small>(Los Angeles, California)</small>	<p><b>The Los Angeles Division</b> is the home of the next-generation manned weapon system—the Mach 3 B-70 Valkyrie multi-purpose bomber—and America's first manned space vehicle, the X-15. Engineers in this division are engaged in research, development, and</p>	<p>production of complete manned weapon systems. Work encompasses the fields of Electronics, Metallurgy, Structures, Aerodynamics, Thermodynamics, Dynamics, Mathematics, Physics, Human Factors and Industrial Engineering.</p>
 <b>Missile weapon system management &amp; space research at the Missile Division</b> <small>(Downey, California)</small>	<p><b>The Missile Division</b> is the home of the GAM-77 "Hound Dog," an air-to-surface missile for the Air Force's B-52 bomber. The Missile Division has within its ranks some of the nation's most experienced engineers and scientists in the fields of missiles and weapon systems. They are performing research on</p>	<p>missiles and space exploration vehicles of a wide variety of range, speed and propulsion methods. Scientists at the Aero-Space Laboratories, an organization within the Missile Division, are conducting creative research well in advance of existing technology in the space sciences.</p>
 <b>Propulsion systems and concepts at the Rocketdyne Division</b> <small>(Canoga Park, California) (McGregor, Texas)</small>	<p><b>Rocketdyne</b> is engaged in ideas-to-hardware development of propulsion systems. High-thrust liquid propellant engines, built by Rocketdyne, have powered most of the missiles used for military and civilian space projects including Atlas, Jupiter, Thor, Redstone, Explorer, Discoverer, Pioneer, Juno, and others. Under development at present are two super performance liquid systems. While leading the nation in liquid propellant</p>	<p>systems, the division is under contract for high energy solid propellant motors and unique accessory equipment. Solid propellant operations are located at McGregor, Texas. Other propulsion system concepts are actively under development employing the principles of ion energy, nuclear energy, plasma jets, arc-thermodynamic and magnetohydrodynamic systems.</p>

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