Honor Society Initiates Thirteen SU Seniors

The NDSU chapter of Phi Kappa Phi honor society initiated 13 seniors during ceremonies in Minot in the Student Union on Wednesday, Feb. 22.

The new members are: Daniel Anderson, AAS; Gary Carlson, AAS; Herman Delvo, Ag; Jerold Genna, Ag; Phyllis Gill, HE; Merle Hanson, ME; Loren Hill, Chem; Charles Koeflman, AAS; Merrill Lewis, ME; Daniel Peterson, Ag; Philip Peter- son, Ag; Eldon Searson, ME and Mary Wulium, AAS.

Richard Kimpel, Chem Jr., was nominated by the chapter to compete for a Phi Kappa Phi fellowship. Three to five of these fellowships, consisting of a $2500 stipend, are awarded every year by the national office to facilitate the students entry into graduate study.

The awards are granted on the basis of the candidate's scholastic record, his plans for graduate study and evaluations supplied by his instructors.

Two NDSU seniors have won Phi Kappa Phi fellowships since the program was established in 1932. They were Eldon Johnson in 1961 and Wayne Kessler in 1965.

Take to the Hills, Men of NDSU

Coeds Are Taking Up Riflery

A group of coeds at NDSU is out to prove that Annie can get her gun—and be a crack-shot with it.

They are participating in an extensive rifle program set up under the Women's Recreation Association, according to Captain Ferdinand Barger, rifley coach and assistant professor of military science.

For the first time the year the rifle program is awarding medals to the women for their proficiency. Captain Barger says that the girls are turning out to be such crack-shots that the supply of medals is fast being depleted.

Ten girls have earned medals in the program so far. Three medals and a trophy are awarded for varying degrees of proficiency. Coeds receiving medals were: Susie Gnepper, gold medal; Sonja Ziegler, silver medal; and Lynn Schumacher, bronze medal. The coeds have earned recognition by the National Rifle Association and scheduled postal meets with three other universities. Postal matches with the University of Wisconsin, Iowa State University and Washington University are set for March.

The coeds have earned recognition by the National Rifle Association and scheduled postal meets with three other universities. Postal matches with the University of Wisconsin, Iowa State University and Washington University are set for March.

All the above positions are salary paid positions set by the board. The staff selectees will be honored at the annual Board of Publications banquet Saturday, Mar. 25, at the Silver Moon. The banquet is traditionally held to announce the selection and as a token of appreciation for the past year's staff members. Scholarships for 'jobs well done' will then be given to staff members selected by the board. The recipients must be underclassmen.

Board Names Puppe, Quam and Erickson As Student Publications' Editors

Allyce Puppe, H. Ee. Jr., and Janice Quam, H. Ee. Jr., have been named Spectrum and Bison editors respectively by the NDSU Board of Publications. Erickson, H. Ee. Jr., was selected as news bureau editor.

Business Managers were named as Dave Herstad, AAS, Soph, for the Spectrum and Loren Stadig, Ag. Jr., for the Bison. The Spectrum is still negotiating on photographs or selection. All were chosen as a board meeting Thursday, Feb. 16, from applicants who submitted both written oral applications.

The staff selectees will be honored at the annual Board of Publications banquet Saturday, Mar. 25, at the Silver Moon. The banquet is traditionally held to announce the selection and as a token of appreciation for the past year's staff members. Scholarships for 'jobs well done' will then be given to staff members selected by the board. The recipients must be underclassmen.

Have Music, Will Travel

Band and Choir Set For Tours

Choir

NDSU's 64-voice cappella choir will leave March 5 and appear in nine states. The choir, currently on its third extended tour, will make appearances in Minnesota, Wisconsin, Indiana, Ohio, New York, New Jersey, Pennsylvania, Illinois and Iowa before returning to Fargo March 18.

It was under the inspiration of choir director Godwin that the group began making extended tours. Godwin, a member of the NDSU faculty for four years, holds a Master of Music degree from the Eastman School of Music. The director was recently cited for his excellent directing by being named an honorary member of the Choral Conductors Guild of America. This organization is composed of top-level directors from all over the nation.

Performances will begin Sunday, March 5 at St. Mark's Lutheran Church in Minneapolis, Minn.

From Minnesota they will go to Illinois, Indiana, Ohio and New York. The organist of the Zion Lutheran Church in Utica, a sister of choir member Dave Nel- son, helped to arrange their appearance there.

Two NDSU 1960 graduates arranged the choir's appearance at the Wesley Methodist Church, South Plainfield, N. J. The students, James Pomerory and Richard Techmann, are now attending Drew University.

In New York City there will be no concert, giving the choir a free day for sightseeing.

Details are as yet indefinite in Philadelphia but upon leaving the city they will go on to Ohio, Illinois and Iowa. Leroy Anderson, graduate of NDSU in 1960 and director of music at Tompkins High School, arranged for the choir's appearance at Tompkins. Iowa.

Upon their return home a concert will be held at the First Lutheran Church on Mar. 19.

NDSU's 65-member Gold Star Band will begin their annual tour on March 12. Performing in seven cities, the tour will take them to Minnesota, North Dakota and two provinces in Canada, Manitoba and Saskatchewan.

On March 6 they will play at Fort River Field, Minn., before going into Canada. Their first concert there will be at Wimi­ nston, Minn., followed by Brandon, Man.; Regina, Sask.; and Estev­ an, Sask. Returning to the United States they will perform at Souris and Harvey, North Da­ kota.

The band, under the direction of William Euren, associate pro­ fessor of music at NDSU, will present a varied program of standard, contemporary and modern music.

Featured soloists will include Les Tesh, cornet, and Glen Bowen, NDSU music instructor, clarinet. Members of the saxophone section include Sharon Cook, James Froen and Clinton Munch.

More than sixty high schools throughout the state have sent requests to the Sharivar Central Committee for NDSU students to come and talk about going to college and Sharivar. Visits will be made to the school during quarter break periods.

Sign-up sheets have been sent to the dormitories, sororities, and fraternities. They were also circulated at a meeting of the Inde­ pendent Students Association. Additional Sharivar brochures and talk outlines will be available Tuesday, Feb. 28, from 2 to 5 p.m. in conference room A of the student union.

At this time students who feel they are not familiar enough with Sharivar will receive complete in­ formation on what should be stressed at these meetings with high school students. Students may also obtain the material by contacting Judi Amoth at CE 3-7168. The high school which have requested talks by NDSU students are available through the Sharivar Central Committee or the communications office.

"We cannot overemphasize the need for students to get up on this phase of Sharivar. This is the biggest and can be the most ef­ fective single publicity item. Through these tours we will be able to contact the majority of high school students throughout the state.

Regardless of the excellence of exhibits and activities on campus during the quarter break period, the final success of the event depends on the amount of publicity attract­ ed," stated Oma Carlson and Bruce Anderson, Sharivar co­ chairman.
The Spectrum Asked:

**How much time do you spend in preparation for a final?**

By Ray Hendrich

Dick Bliss
Ph. soph.
Dubuque, Ia.

Kathy Sundseth
Math in.
Halstad, Minn.

Norma Opgrand
Hi-soph.
Halstad, Minn.

Gary Johnson
Arch soph.
 Crosby, N. D.

Gunnar Unger
Arch soph.
Mandan, N. D.

THE SPECTRUM

February 24, 1945

**Studsents Live 'Round**

New University Dorms Planned on 'Core' System

**by Frank Vyrzulek**

Plans for NDSU's two new dorms, notwithstanding the problems involved, are another indication of the necessary $1,200,000 loan are rapidly moving toward completion. In all likelihood contractors involved in gaining federal approval of the necessary $1,200,000 loan, bids for the two will be let in the late spring or early summer.

Both Burgum Hall, the proposed new women's residence, and Reel Hall, the new men's dormitory, have been designed under a concept that is new to this part of the country. This is the "center core" system.

Under this plan all service facilities, such as washrooms, showers, laundries, etc., will be placed in the center of the building, with student rooms built completely around this 'core'.

This plan has been adopted with excellent results by several colleges around the country. The halls between the 'core' and the student rooms act as dead air space to greatly reduce the noise level in the rooms.

In another effort to reduce noise in the student rooms, the lounge area will be incorporated in a separate one-story structure connected to the three-story main building by an enclosed passageway.

Each room has been designed to accommodate two students, and will include a moveable bed, a moveable desk and a built-in desk.

The architects, Johnson and Lightowler of Fargo, have included in the design, plans to improve the outside appearance of the building. This will be done through concrete 'fences' placed in front of the lounge structure and along the sides of the main dormitory building.

Undoubtedly these will be useful and welcome additions to the NDSU campus.

However, our quarrel is with the planning that has located these buildings on the campus.

As originally planned, Burgum Hall was to have been located at the east end of the Mall, between Churchill Hall and the Home Management House. However, a concerted student effort several years ago caused the location to be changed to the area south of Old Main and east of Putnam Hall. This is how plans stand now.

Placing a large box-shaped dormitory structure near such Gothic-style buildings as Old Main and Putnam will do little to enhance the appearance of this campus. In addition, there will be a parking lot area alongside the eastern side of the building further defacing the appearance of that corner of the 'old campus'.

Reed Hall has been planned for the area between Minard Hall and 12th Avenue North. This will give it more occupants easy access to the Library and Minard. But, here too, we face a problem.

Liberal arts are the keystone of the university. Minard Hall is over forty years old and has been rearranged several times to accommodate more students. Even so facilities are old and antiquated in many cases.

It has been proposed to move several of the arts and sciences departments into South Engineering when the new engineering building is completed. This will undoubtedly alleviate some of the problems, but here again, we are faced with rehabilitating an already elderly building. This can at best be a temporary expedient.

The answer then is a new building, built either as a separate structure or as an addition to Minard. And where would be the most likely place to expand? Right into the area that now houses the Hall of Mines. Placing a dormitory in this location would, under the circumstances, be entirely inappropriate.
NSF Grants $30,700 For Research

Three grants totaling $30,700 have been awarded by the National Science Foundation to researchers in computer science. The grants will fund a variety of projects, including computer graphics, artificial intelligence, and computer architecture.

The grants are part of the NSF's mission to support fundamental research in computer science and related fields. They will be used to fund projects that have the potential to advance the state of the art in computer science.

The recipients of the grants are:

- Dr. Alice Johnson, University of California, Berkeley
- Dr. Brian Smith, Stanford University
- Dr. Richard Williams, Massachusetts Institute of Technology

The grants are the latest in a series of NSF awards that have been made to support computer science research. The NSF has a long history of supporting computer science research, and these grants are part of its ongoing commitment to advancing the field.

The grants will be available to researchers for the next two years, and the recipients are expected to report on their progress periodically. The NSF will use the reports to evaluate the impact of the grants and to make decisions about future funding.

The NSF is a federal agency that supports fundamental research and education across all fields of science and engineering. It is one of the largest sources of funding for basic research in the United States, and it plays a critical role in advancing the nation's technological capabilities and economic competitiveness.

The NSF is committed to supporting research that has the potential to lead to new discoveries and innovations, and it is committed to supporting researchers at all stages of their careers. The NSF is proud to support these grants, and it looks forward to seeing the results of this important research.

The NSF is committed to supporting research that has the potential to lead to new discoveries and innovations, and it is committed to supporting researchers at all stages of their careers. The NSF is proud to support these grants, and it looks forward to seeing the results of this important research.

The NSF is committed to supporting research that has the potential to lead to new discoveries and innovations, and it is committed to supporting researchers at all stages of their careers. The NSF is proud to support these grants, and it looks forward to seeing the results of this important research.
Tau Beta Pi Initiates 14

Fourteen junior and senior engineers have been named to the NSDI chapter of Tau Beta Pi, national engineering honorary. Selection was made on the basis of scholastic honors, and demonstrated ability in engineering and citizenship.

The new members include Charles Archambault, Brian Tranbery, Albert Kemmer, Frank Solis, Carl Larson, Donald Dittmer, Bill Brown, Sherwood Peterson, David Dittmer, Herman Schats and Arnold Nestegard. All are members of the Alpha Gamma Rho fraternity.

Traveling in two cars, the group plans to spend the week of quarter break touring the land south of the border. They plan to visit Monterey, Mexico City, Acapulco, and Las Vegas, Nev.

According to Larson, the group estimate a cost of about $100 each for the 6,000 mile trip.

Newman Shows Movie

The movie "The Quiet Man," starring John Wayne, will be shown Friday, Feb. 24 at 8 p.m. at the Newman Center. Sunday dinner will be served at 5:30 p.m. at the Newman Center. Sunday, Feb. 25 at 8 p.m. at the Newman Center.

SAE Initiation

The initiation of new members will take place at Pershing Field tomorrow, Feb. 25 from 12 to 5 p.m.

Brooms, Balls Clash

Hockey Climaxes Week

Old broom sticks and rubber balls will clash at an interfraternity overhocky game to climax Winter Week at NSDU, according to SUAB president, John Koroucek. The game will take place at Pershing Field tomorrow, Feb. 25 from 12 to 5 p.m.

Tonight Feb. 24, a stereo dance will be held at the Union ballroom from 9 p.m. to 1 a.m. Winter sports equipment, like that used at the Olympics, will be on display.

Dance—Saturday

Another dance is set for tomorrow night in the Union. The Don Ford combos will provide music from 9 to 12 p.m. Both dances are open to the public.

Other events during Winter Week sponsored by the Student Union Activities Board, were a movie and dance in the Union Feb. 20. An intercollegiate bridge tournament was held Feb. 22. NSDU scores were sent to University of Richmond in Virginia, where they will be ranked with results from other colleges and universities throughout the country.

Plum Throwing

Wayne Hamann, Al Hart and John Koroucek were on the receiving end of snow pies thrown by the students on campus mall. Students planning Winter Week in include John Koroucek, SUAB and KKG house in honor of her engagement to brother Jim Clow.

The newest KAT's on campus are: Carol Knutson, Carol Nelson, Al Hart, Wayne Hamann, Al Kocourek—provided excellent party at the Moorhead Country Club. Time—6 p.m.—theme "Costume Ball".

Never saw such fun as the Snow Pie Throwing Contest held on Thursday in conjunction with SUAB Winter Week. Three of the BMOC—Al Hart, Wayne Hamann, John Kocourek—provided excellent entertainment. Time—6 p.m.—theme "Costume Ball".

Fra.Kappa Psi's serenaded and gave roses to Donene Sorenson of the KKG house in honor of her engagement to brother Jim Clow.

According to Larson, the eight dozen unreadable North Dakota weather on Mar. 3, as they depart for a trip to sunny Mexico.

They are Jim Bergeron, Carl Larson, Dorrill Dittmer, Bill Brown, Sherwood Peterson, David Dittmer, Herman Schats and Arnold Nestegard. All are members of the Alpha Gamma Rho fraternity.


the kappa psi's serenaded and gave roses to donene sorenson of the kkg house in honor of her engagement to brother jim clow. a shiny new sparkler is on the third finger left hand of cheryl agr rich palmer. the giver of the gift is al rich palmer. best way for a girl to keep her youth is not to introduce him to anybody.

the newest kappa psi's on campus are: carol knutson, carol nelson, alf hart, wayne hamann, al kocourek—provided excellent party at the moorhead country club. time—6 p.m.—theme "costume ball".

for those evening snacks

the dutch maid store

Dairy Products, Cookies, Pizza, Meats, Cheese, Bread

Monarch Ice Cream

9:00 a.m. to 11:00 p.m. Daily and Sundays

519 Broadway

have a real cigarette—have a camel

the best tobacco makes the best smoke!

rab are you ready tobacco co., winter-salem, o.c.
Meet NDSU’s Ugly Man

Phil Roesch snarls at THE SPECTRUM cameraman after being congratulated by Gene Nicholsen, A Phi O prexy, on winning the title of “Ugliest Man On Campus.” Mary Walrath, representing Kappa Alpha Theta, Roesch’s sponsoring sorority, seems to be enjoying the ceremony.

Roesch Wins UMOC Title

Phil Roesch was named the 1961 Ugly Man on campus at the Alpha Phi Omega-sponsored UMOC dance Saturday, Feb. 18.

Kappa Alpha Theta, Roesch’s sponsoring sorority, together with the Tau Kappa Epsilon fraternity raised over $200 during the week-long contest. According to Gene Nicholsen, A Phi O president, “This year Greek organizations raised more than $800 for the crippled children.”

The winner of the contest is picked according to the amount of money that is deposited in his collection box. Each penny is counted as one vote. The funds go to the Crippled Children’s School in Jamestown.

Roesch received an engraved cigarette lighter for his efforts. He also accepted a traveling trophy which is given to the winning Ugly Man’s fraternity, Tau Kappa Epsilon.

Mary Walrath, sorority chairman, received the Ugly Man plaque for her organization. According to Nicholsen nearly all A Phi O chapters throughout the United States sponsor Ugly Man contests. However, he stated, it is doubtful whether any other campus has ever raised as much money as NDSU has this year.

Band Sponsors Pledges Eight

The women of Tau Beta Sigma, national honorary women’s band sorority, initiated one new member and pledged eight others in ceremonies Sunday, Feb. 19. Initiated was Beverly Elmie, AAS soph.

Lois Condit, BIE fr, Judy Fussum, Phr fr, Susan Hefertand, HE fr, Suzanne Jensen, AAS fr, Marilyn Johnson, Chem fr, Carol Nelson, HE fr, Marla Robberstad, AAS jr, and Kathleen Thomas, Phr fr, were pledged.

The chapter is currently working with Kappa Kappa Psi, national honorary men’s band fraternity, in making name tags and music labels for use during the upcoming band trip.

Rawlings & MacGregor

EMERY JOHNSON

WHOLESALE

OF ATHLETIC
EQUIPMENT

7 S. Broadway
AD 5-5361

856 PROGRAMS,
PROJECTS & TITLES

AT HUGHES

THE DIVERSITY
OF ELECTRONICS

ACTIVITY AT HUGHES PROVIDES AN IDEAL ENVIRONMENT FOR THE GRADUATING ENGINEER OR PHYSICIST.

THESE ACTIVITIES INCLUDE:

- Command and Control
- Information Processing
- Micro-Electronics
- Linear Accelerators
- Gamma Rays
- Nuclear Fusion
- Remote Handling Devices
- Photoconductive Materials
- Electroplating
- Solid State Display Devices
- Live-or-Left UHF and VHF Relay Systems
- Air Traffic Regulation and Landing System
- Pulsed Doppler Radar
- Log-Step General Purpose Memory
- Matchstick
- Radar Closed Loop Tracer
- Waveguide Ship Instrumentation
- Precision Frequency Measurement System
- Special Vehicle Subsystems
- Telemetrying Systems
- Radiation Sources, Detectors, Handling Equipment and Effects Analysis
- Inertial Missile Guidance Systems
- Machine Tool Controls
- Microwave Tubes
- Transistors and Diodes
- Rectifiers
- Thermal and Magnetic Relays
- Crosstube Filters
- Digital Components and Devices
- Plasma Physics Research

ELECTRICAL ENGINEERS AND PHYSICISTS

B.E., M.S. and Ph.D. (June and Summer Graduates)

Members of our staff will conduct

CAMPUS INTERVIEWS

March 7, 1961

Find out more about the wide range of programs, unique Professional Register, advanced educational programs and relocation allowances offered by Hughes.

For interview appointment or informational literature consult your College Placement Director, or write Hughes College Placement Office, P.O. Box 40301, Los Angeles 40, California.
Chemists Prepare Photomicroscopy Study

If any of you aspiring photographers think you have trouble with variable light, focus or correct lens openings, you can sympathize with the problems of two Chemistry juniors. The pair, Lynn Airheart and Ray Hendrickson, are currently engaged in a project called "Photo Microscopy." In less technical terms, it is the photographic study of organic and inorganic compounds with the use of a microscope. It is not to be confused with microphotography, which is the photographing and condensing of material on microfilm, such as a page of THE SPECTRUM on 35 mm or smaller film.

The project they are working on involves the study of organic compounds and the synthesis of certain "urethane" compounds. The urethane compounds under study have thixotropic properties. That is, they have the tendency to thicken when they are treated with appropriate solvents.

Urethane foam, commonly called foam rubber, is an example of a urethane compound. These urethanes are used in a wide variety of industries including the drug, paint, and plastic industries.

The two take photographs of these various urethanes and then attempt to correlate the crystal structure with the thixotropic behavior of the compounds. If there is a correlation, photomicroscopy can be used as a means of identifying compounds having thixotropic properties.

The project began this quarter and is scheduled for completion by the end of spring quarter. A paper concerning the study will be presented before the North Dakota Academy of Science.

The study is being made under the direction of Prof. Sol. Shulman. Cost of equipment and materials is covered by scholarships.

Alpha Zeta Adds 15 New Members

Alpha Zeta, National Honorary Agriculture Fraternity, initiated 15 new members recently at a banquet in the Student Union Ballroom.

The banquet included alumni, active members and new initiates. George Pratt, Alpha Zeta's faculty advisor, was the speaker. He explained what Alpha Zeta is, what it does, and what it should mean to the new members. He pointed out that the main purpose of this fraternity was to encourage and develop strong leadership in men connected with agriculture.

Members are composed of men in some phase of agriculture. They are selected on the basis of high scholastic records, along with high qualities of character, leadership and personality.

New members are Arthur Coffing, George Dotland, Arlin Nordgulen, Jan Peterson, Bill Thompson, John Ostor, Edward Saugstad, Ronald Stubbe, Lawrence Hagen, Darryl Kautzmann, Paul Brubaker, Herman Schatz, Lloyd Berg, Francis Turgeson, and Ray Klepp.

Many Research Grants Open to NDSU Students

Several hundred dollars in scholarships are available to NDSU students through the North Dakota Institute for Regional Studies, according to Dr. Seth Russell, dean of arts and sciences.

Applications must be made before Mar. 15 to Dean Russell at the Institute for Regional Studies on campus. All the awards involve research projects which must be outlined in the application.

Following are the scholarships available:

- Young Memorial Award, $100, for an original investigation deserving to history or government of North Dakota. Open to any undergraduate or graduate student of any NDSU school.
- Institute for Regional Studies Scholarships, several for $100 to research in any phase of history, culture, or biological or physical resources of the Northern Great Plains. Open to NDSU and non-science students.
- Jessamine Slaughter Burgum Scholarship, $100, for a research study in any phase of the Institute's historical program. Open to undergraduate or graduate NDSU students.
- Richard Joyce Memorial Award, $100, for an original investigation relating to rural community development in North Dakota. Open to any NDSU graduate or undergraduate student.

Students interested in the scholarships should discuss their ideas with a staff member in the field they select for advice on how to set up the project. Awards will be announced at the Honors Day Convocation.
Newmanites Pick Schann & Harbake
As Representative

Kennedy Sets the Style

Get these twelve great original recordings—in one
12” LP album—for $1.00 and ten empty Lucky Strike packs!

Look at this album. Imagine these 12 great artists, great
hits together on one record! Here are the original record­
ings—magnificently reproduced by Columbia Record Pro­
ductions ($3.98 value). Never before have all these great
artists been brought together in one album! Never be­
fore have you been able to buy these great hits at such a
bargain price! To get your album, fill in and mail the
shipping label at right with $1.00 and ten empty Lucky
Strike packs to "Remember How Great," P. O. Box 3600,
Spring Park, Minnesota.

SMITHSONIAN MUSICAL INSTRUMENTS COLLECTION

To get "Remember How Great" album, enclose and mail $1.00 and 10
empty Lucky Strike packs, together with this shipping label. Please
print clearly. Orders received after May 31, 1961, will not be honored. If
your order is not received by June 30, 1961, send another one.

The original recordings!

LOUIS ARMSTRONG
COUNT BASIE
LES BROWN
CAB CALLOWAY
XAVIER CUGAT
TOMMY DORSEY
EDDY DUCIN
DUKE ELLINGTON
HARRY JAMES
ANDRE KOSTELANETZ
MARY MARTIN
DINAR SHORE

LUCKY STRIKE

"Remember How Great?"
"Remember How Great?"
P. O. Box 3600
Spring Park, Minnesota
TO
YOUR NAME

SHIPPING LABEL

"Remember How Great?"
P. O. Box 3600
Spring Park, Minnesota
TO
YOUR NAME

STR

"Remember How Great?"
"Remember How Great?"
Free estimates. Complete nationwide
service. Expert packing. Fully

Allied Van Lines
1200 World’s Largest Movers

Phone AD 2-5243
Evenings S-5319

M O V I N G ?

January 26, 1961
THE SPECTRUM
/**/
Fee Payment To Be Moved For Monday's Registration; Classes Resume On Tuesday

A new system of one-day registration has been announced by B. Brandrud, director of admissions and records. This modified registration will be held in the Field House on Monday, Mar. 13 only. Students will register at the Field House and be assessed their fees on the Field House stage as in the past. Fees will be paid at Festival Hall where the business office will be set up all day Mar. 13 and until noon on Mar. 14. Classes begin at 8 a.m. Mar. 14 and the late registration fee will be assessed after 12 noon Mar. 14.

Field House stage as in the past. Classes begin at 8 a.m. Mar. 14 and the late registration fee will be assessed after 12 noon Mar. 14.

Registration on Mar. 13 will take place as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 a.m. to 10 a.m.</td>
<td>Seniors, Graduate Students</td>
</tr>
<tr>
<td>10 a.m. to 12 noon</td>
<td>Juniors</td>
</tr>
<tr>
<td>1 p.m. to 3 p.m.</td>
<td>Sophomores</td>
</tr>
<tr>
<td>3 p.m. to 5 p.m.</td>
<td>Freshmen</td>
</tr>
</tbody>
</table>

Only One in State

Lamber Vogel, assistant professor of mechanical engineering, explained the tunnel's operation and said it is the only one in the state.

"The tunnel generates an atmosphere such as might be produced by an airborne low-speed craft. With the tunnel, the air moves and the plane is stationary, but the effect is similar to what would happen if the plane itself were moving."

The air speed is generated by a six-foot steel propeller driven by a 75-horsepower motor located at one end of the tunnel. When the big motor is switched on a loud whine resounds in the laboratory.

"The tunnel generates an atmosphere such as might be produced by an airborne low-speed craft. With the tunnel, the air moves and the plane is stationary, but the effect is similar to what would happen if the plane itself were moving."

100 Degree Temperature

The tunnel is curved at each end, so that the air travels in a circular motion down the bottom section and back through the top. By the time the wind's been blowing for about an hour the temperature rises to about 100 degrees, so that the tunnel might almost be used as a gigantic clothes dryer.

Vogel uses the giant apparatus in his wind tunnel testing class, a senior course in aeronautical engineering.

AEC Finances

SU Students’ Physics Trip

Four physics students at NDSU left Tuesday, Feb. 21 for a three-day visit to the Argonne National Laboratory near Chicago. At the laboratory they will study a nuclear reactor in operation.

The students are Darrell Galde, Howard Blackstead, Ronald Kostelecky, Dennis Whitson. They are accompanied by their instructor Abdul Rana, associate professor of physics.

The trip financed by the Atomic Energy Commission is part of the NDSU program in physics and engineering. The reactor equipment at the laboratory is shared by the Associated Midwest Universities.

A nuclear reactor converts atomic energy to electrical or mechanical energy. As a by-product of its operation it produces the radioactive isotopes used in medical work.

A big wind comes up regularly at NDSU when the aero laboratory wind tunnel goes into action.

The tunnel, used in aeronautical engineering classes, generates air velocities up to 150 miles per hour for testing characteristics of airplanes. A small scale model located inside the 54-foot-long tunnel demonstrates how a plane reacts in the high winds.

We have tickets for airline, bus, rail. Let us handle all your travel arrangements.

See REED TRAVEL AGENCY for

★ European trips ★ Tours
★ Employment-interviews trips
★ Hotel reservations
★ Car rental
★ Bus reservations
★ Airline reservations
★ Cruise travel

Reed Travel Agency
305 Broadway
24 SU Student Bowlers Take Part In Tourney

Twenty-four top NDSU men and women bowlers took part in the National Intercollegiate Bowling Tournament at the Student Union Feb. 15 to 22 according to Dale Brostrom, Union director.

Brostrom is also the director of the bowling tournament which is sponsored by the Association of College Unions.

More than 100 colleges and universities entered the tourney. Brostrom will rank the scores of all participating schools nationally and by regions. He will also have charge of the final tournament at Detroit, Mich., in March for the six top all-events scorers from each of ten ACU regions.

NDSU teams have ranked near the top ten nationally in past tournaments, said Brostrom.

In the women's team bowling, Janice Score, Karen Loberg, Marsha Bergman, Collette Buhr, Jackie Bakkum and Dixie Gifford combined for a 2375 series. This was about 250 pins down from last year's total.

In the doubles, Collette Buhr and Marsha Bergman had the high 946 series. Lois Woyack and Linda Helming rolled the next high with 796.

High scorers for all events were Collette Buhr and Marjeanne Tebben with 1334 and 1229 respectively.

"The women's scores seemed much lower this year than last year," said Gordon Teigen, assistant director of the Student Union. He expressed hope for some placing in the regional division.

Six Man Team Scores 2331

The six-man team had a score of 3351. High scorers for all events were Duane Braynik with 1841 and Chuck Forslund with 1716.

In singles, Larry Paulson rolled 592 and Duane Braynik 593. Jerry Lingen and Chuck Hernett scored 1177 in doubles. Second were Jim Anderson and Duane Braynik with 1165.

The men's scores were about the same as in last year's tournament, stated Teigen.

Ski Club Plans Ten Day Trip

The NDSU Ski Club is planning a trip to Sun Valley, Idaho, during quarter break, according to the President, Duane Lawrence.

Eight members of the club will make the 10 day trip by car. Last spring they went to Aspen, Colo.

The Ski Club also participates in Intercollegiate Ski Meets with other schools in the area.

Anyone can join the club said the president. Ability to ski is not a prerequisite. The club meets once a week to discuss snow conditions, skiing techniques and trips.

You've Tried the Rest
Now Get the Best

THE PIZZA SHOP

301 Broadway
Phone AD 5-3331
ORDERS TO GO

THE SPECTRUM

February 24, 1974

Meet The North Dakota State Bison

Bill Anders-6'-2", sophomore
. . . Up from fresh squad. . . Good shot and moves well around basket. . . Lack of height is a problem area. . . arts and sciences major.

Larry Johnson-6'-5", sophomore
. . . Up from fresh squad. . . Handles himself well. . . rebounding needs improvement. . . arts and sciences major.

Wayne Langen-6'-3", junior
. . . Up from fresh squad where he was one of the leading scorers. . . Good tough rebounder who has a good shot and feeds nicely. . . For his size he developed into an excellent pivot man. . . majoring in agriculture.

Mike Anderson-6'-3", sophomore
. . . Up from fresh squad. . . one of the most aggressive on the floor. . . a good defensive man and good shot. . . with experience will develop into a fine guard. . . arts and sciences major.
Viewing Intramurals
by Fred Wright

Bowling standings in the various leagues are getting tighter as the season progresses. The leaders in the various leagues have almost identical records.

Highest average of 800 is held mutually by four teams. In the All Star League Vet's Club IV and Pharmacy Club, tied with 14-6.

Larry Paulson, Vet's Club, rolled a 262 series in helping his team gain victory over the SAPX. He bowled 202, 205 and 219, consecutively.

All Star League: Vet's Club IV 262, Pharmacy Club 3, TKE I 211, Chemistry Club 3, Kappa Psi II 11, Sigma Chi 4, Theta Chi 11, Lambda Chi 3.

Masters league: Co-op I 144, AIEE-mE 143, Vets Club II 1, TKE III 4, ATO II 1, Farm House I split with Stockbridge I two games apiece.

Delta Kappa Psi II split with Co-op I, SAE II 3, Sigma Chi 1, Kappa Psi II split with Co-op I two games apiece.

Basketball playoffs have not been completed. The results will appear in the SPECTRUM after the recess.

John Stalpes Selected MVP

John Stalpes has been selected by his teammates as the most valuable player on the 1960 North Dakota State University football team. He was honored at halftime of the NDSU-UND basketball game last Friday night.

Stalpes was given the Dennis Drewes Memorial Award at the game. The award was purchased by friends of Dennis Drewes, who was killed in 1964 while piloting a jet plane on a test flight.

This was the seventh annual presentation of the award.

Drewes was a 1949 graduate of the University of North Dakota.

The North Dakota State University basketball team played like a true hospitable host last weekend and dropped the second game of the traditional "U" Series 76-63 to the University of North Dakota.

The loss caused a split in the opening two game series as the Bison won the first game 57-52.

Again, it was the reserves that came through for the Bison in the first game. Coach Bentson unloaded his bench with time running out and it was these boys that pulled the game out of the fire.

Bison forward Neal Jacobson put in an excellent performance and definitely played an important part in leading the team to their victory.

Bison guard Lloyd Babby came into the ball game and was the man who kept our victory intact.

It was undoubtedly a spectacular victory and a thriller for the hometown fans.

Travel North

The Bison will move into Sioux country next week and face UND to finish out the last two games of the "U" Series. NDSU will not only be finishing out the last two games of the "U" Series but will also be finishing out the 1960-61 season.

The bad part about the Bison coming to the end of their '60-'61 schedule is the fact that Little All American Marv Bachmeier closes out his illustrious career.

Jackson number 24, worn by the flashy guard, will be a hard one to fill in the coming years.

BISON BITS
by Sports Editor Sherry Basin

The NDSU bowling team will leave Wednesday, Mar. 8, for Denver, Colo. The Bison will compete in matches on the way to Denver, at Denver and on their return trip home.

They meet the University of Wyoming at Laramie on Thursday, Mar. 9. On Friday they will roll against Colorado University and Colorado College at Boulder. Saturday finds them taking on Denver University and the Air Force Academy at Denver.

On Sunday they have a tripleheader with Kansas University, Kansas State and Wichita University at Manhattan, Kans.

They wind up their tour on Monday against Nebraska University at Lincoln.

AIEE-EE
AIEE-EE will meet Tuesday, Feb. 28 at 4 p.m. in room 22 of South Engineering. Election of officers will be held.

Bowling Team Travels West

The NDSU bowling team will leave Wednesday, Mar. 8, for Denver, Colo. The Bison will compete in matches on the way to Denver, at Denver and on their return trip home.

They meet the University of Wyoming at Laramie on Thursday, Mar. 9. On Friday they will roll against Colorado University and Colorado College at Boulder. Saturday finds them taking on Denver University and the Air Force Academy at Denver.

On Sunday they have a tripleheader with Kansas University, Kansas State and Wichita University at Manhattan, Kans.

They wind up their tour on Monday against Nebraska University at Lincoln.

AIEE-EE
AIEE-EE will meet Tuesday, Feb. 28 at 4 p.m. in room 22 of South Engineering. Election of officers will be held.

Bison BITS
by Sports Editor Sherry Basin

The North Dakota State University basketball team played like a true hospitable host last weekend and dropped the second game of the traditional "U" Series 76-63 to the University of North Dakota.

The loss caused a split in the opening two game series as the Bison won the first game 57-52.

Again, it was the reserves that came through for the Bison in the first game. Coach Bentson unloaded his bench with time running out and it was these boys that pulled the game out of the fire. Bison forward Neal Jacobson put in an excellent performance and definitely played an important part in leading the team to their victory.

Bison guard Lloyd Babby came into the ball game and was the man who kept our victory intact. It was undoubtedly a spectacular victory and a thriller for the hometown fans.

Travel North

The Bison will move into Sioux country next week and face UND to finish out the last two games of the "U" Series. NDSU will not only be finishing out the last two games of the "U" Series but will also be finishing out the 1960-61 season.

The bad part about the Bison coming to the end of their '60-'61 schedule is the fact that Little All American Marv Bachmeier closes out his illustrious career.

Jackson number 24, worn by the flashy guard, will be a hard one to fill in the coming years.

Double JJ Ranch
Hayrides . . .
Sleighrides . . .
with horses
JR. AND JO HIGHNESS BU 2-3996

Mr. Glenn Hill presents
John Stalpes, Phy. Ed. ir, the Dennis Drewes Award for the most valuable player on the Bison football squad for 1960.
No Fighting on Sunday, Girls

BECAUSE FIGHTING on "Sunday Costs Five Peso." Mary Ann Albert, H. Ec. soph; Jean Thompson, AAS soph; Betsy Nelson, AAS Jr. and Bobby Nelson, AAS soph, enact a scene from Mexican Fiesta, a comedy trio of one act presented in Circle-T Theatre Wednesday and Thursdays.

Job Interviews

Monday & Tuesday, Feb. 27, 28
NORTH AMERICAN AVIATION will have representatives of four company divisions conducting employment interviews on campus. The divisions to be represented will be Autonetics, Rocketdyne, Los Angeles, and the Space and Information Systems Division. All senior and graduate students are invited to contact the Placement Office and arrange interviewing appointments.

Monday, Feb. 27
GENERAL MOTORS RESEARCH LABORATORY, Warren Mich., will visit the campus for the purpose of conducting employment interviews with chemistry students specializing in protective coatings. A particular interest in graduate coating students has been indicated although all chemistry students are welcome.

Tuesday, Feb. 28
PRATT & WHITNEY AIRCRAFT, a Division of United Aircraft Corporation, will seek interviews with physics and engineering students scheduled for spring graduation at all degree levels. They offer positions in analytical design, experimental materials, and installation engineering.

Wednesday, Mar. 1
CONVAIR ASTRONAUTICS, A Division of General Dynamics Corporation, will be represented on campus by James Hook of San Diego, Calif. Hook invites all electrical, mechanical and aeronautical engineering seniors and graduate students from areas of physics and mathematics to register for campus interviews.

Wednesday, Mar. 1
RURAL ELECTRIFICATION ADMINISTRATION will be represented on campus by K. M. McLaughlin, R.E.A. Field Engineer. All senior electrical engineering students are invited to register for campus interviews.

Thursday, Mar. 2
Geo. Hormel & Company will be represented on campus by Roger W. Lockrem, director of management recruiting and training for the company. Lockrem has numerous openings with the company and will seek interviews with students interested in employment.

Placement Office

Summer employment opportunities will be made available to students who complete their junior year by June. All students interested in summer employment are invited to attend a group meeting at 4 p.m. on Thursday, Mar. 2 in Conference Room 1, 2 and 3.

Dave Carlson Is Chosen
For Summer European Trip

Dave Carlson, AAS soph, will spend eight weeks in Europe this summer on a study project of churches in other countries. Carlson is one of 15 delegates sponsored by the National Lutheran Council and the Lutheran Student Association of America who will be sent to Sweden, Norway, Denmark, Berlin, and West Germany. Following a three day orientation, Carlson will leave for New York City on June 17. His trip will include visits to national Lutheran Conferences in Amsterdam, Denmark and Berlin. He will study the background and history of today's churches in addition to the art, architecture and customs of the areas he will visit.

The 15 delegates will travel as a group and will stay in Lutheran student houses or with other church groups.

keep a head of the game!

Gentlemen preferred by blondes, brunettes, and redheads prefer Vaseline' Hair Tonic. That's because most men use water with their hair tonic - and 'Vaseline' Hair Tonic is specially made to use with water! The 100% pure grooming oil in 'Vaseline' Hair Tonic replaces the oil that water removes from your hair. In the bottle and on your hair, the difference is clearly there! Just a little 'Vaseline' Hair Tonic does a lot!

it's clear ... it's

VASELINE HAIR TONIC

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

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