The Spectrum

HARIVAR EDITION

NORTH DAKOTA STATE UNIVERSITY, FARGO, N. D.

4-5

APRIL 8, 1961



NDSU '61 Festival To Be April 21-23; Everyone Is Invited

Thousands of visitors are expharmacy building, Sudro Hall is pected on campus for North Datotally new. kota State University's third annual Sharivar festival, April 21-23.

Everyone in North Dakota has been invited; high school students, their parents, alumni and friends of the institution.

This year's big open house and celebration will be particularly significant, according to President Fred Hultz, because the entire campus community is pleased at the vote of confidence North Dakotans gave when they endorsed the NDSU name change at the polls last fall. Everyone wants the visitors' stay to be pleasant and rewarding.

Bruce Anderson and Ona Carlson, co-chairmen of the event, state, "Special efforts are being made to put every part of the university on display."

A huge program of events has been scheduled, a portion of which is shown on the program on the following page. But there will be so much to see and do, and so many things will take place at about the same time that it will be difficult for any visitor to see everything.

"That's why visitors return year after year to the Sharivar festival," the student chairmen point out. "There is always something different to see and do."

For example, all the buildings on campus will be open to inspection, with students and faculty members around to tell you what is going on. Some buildings have high school and high school senbeen changed around since last iors based on such things as "the

If you are an old alumni, you may want to wander around by yourself to see exactly how things have changed. Or you can join a guided tour and have student leaders show you around.

For entertainment, there will be dancing, a bowling tournament, open houses in the housing facilities and a host of impromptu activities.

Perhaps the biggest entertainment treat will be the campus presentation of "South Pacific," Rodger's & Hammertein's great musical based on the Mischener stories of the war-time Pacific.

Rehearsals for the show have been under way for weeks. It is "on" every night of Sharivar.

High School seniors will find that numerous programs have been arranged especially to help them plan a college career. A special information program on costs, housing and registration procedures will be held April 22 at 10 a.m. Both parents and high school seniors will have opportunity to discuss with faculty mem-bers the various areas of study the university provides.

Cash scholarships will be awarded to some high school senior visitors to Sharivar. Interviews for these grants will also be conducted April 22.

There will also be prizes for year. Most of the exhibits will school with the biggest percent-be different from last year. The age of its seniors present."

Here Is Story Of This Paper

This special Sharivar edition of

Churches Maintain On Campus Centers

Campus religious centers will be mong the most attractive exibits during Sharivar.

hree-day festival include: YMCA, or another. Lutheran Student Assocon, Newman Foundation (Cathlic), Wesley Foundation (Methodst), Baptist Student Union, Canerbury Club (Episcopal), United ampus Christian Fellowship, ongregational), Evangelical and eformed, Evangelical and United rethren (Presbyterian), Intervarty Christian Fellowship and amma Delta (Missouri Synod). any of these groups have resient pastors.

The Fargo School of Religious ducation also is on campus, and ordinates classes with the uni-

argo's many churches.

For many years, NDSU students he Spectrum is a tradition older have mailed a specially-written and made up newspaper to every and made up newspaper to every North Dakota high school senior.

> This is done both to encourage students to continue their education and to invite them to come and inspect the campus.

The editorial staff of the publication is made up mostly of students in advanced communications Church groups on campus which classes. But every student on have open house during the campus contributed in one way

> Editor in Chief is Grommesh, retiring Spectrum editor. Managing Editor is Myrna Erickson with Frank Vyzralek as Business Manager. Page Editors were Gary Longballa, Cecile Myra, Loren Stadig, Alyce Puppe and Ronald Ginsbach. Verne Nies, assistant professor of communications, is advisor.

Photos came from Spectrum and Bison Yearbook files or were taken especially for the publication by Mr. Nies.

The staff of this edition wishes NDSU students, of course, are to join with the University Presways welcome to attend and ident, the Student Body President ake part in activities in all of and the Sharivar Committee to urge you to come to Sharivar.



Greetings to Seniors . . .

Your education will become part of your net worth. It can be capitalized like real propertyvaluable to your state and nation. It is worth money to you. But most important, your education will open up broad vistas to you for those accomplishments which give true satisfaction in a life of good living.

With kindest regards, I am

William L. Guy

The period in which we live may well be called "The Age of Education" for the Twentieth Century has seen tremendous expansion

of education and an increasing concern about it.

Consequently, today, more than ever before, it is necessary that a young person have training beyond the high school. It is necessary not only from the standpoint of broadened ability and intellect, but also in meeting competition. This competition is not limited to the individual's means of corning a livelihood but employed to social competition is not limited to the individual's means of earning a livelihood, but applies also to social and civic endeavor. With standards constantly moving upward, it is imperative that high school students plan seriously for the years ahead. Many persons who seek employment upon graduation from high school rather than continue their education in a recognized institution of higher learning have already found the going rough. They are behave already found the going rough. They are be-ginning to realize that the school of experience

ginning to realize that the school of experience does not pay off as well as it once did and that the opportunities are alarmingly limited.

Of course, the benefits of a college or university education are not limited to the individual. Through an informed, specialized, and clear-thinking citizenry, the community, the nation, and the world gains through improved productivity, higher standards, better cooperation, and greater understanding. Since advanced preparation helps students meet higher standards and provides greater assurance of their future success, they should not be content with an education which merely meets the educational needs of today. Instead, their concern should be to prepare for the needs of their lifetime. Therefore, these young people should begin planning now for further training and thus assure more security, happiness, and understanding to themselves and to the society in which they live.

A. E. Mead

Commissioner of Higher Education

Commissioner of Higher Education

It is a sincere pleasure to invite you to participate in the 1961 Sharivar.

We at NDSU are very proud of our students and the success they have made of this all-university festival. The 1961 Sharivar marks the third anniversary of the event, and with the fine groundwork developed by the present Sharivar committee and the two which preceded it, we can expect many Sharivars to follow.

The purposes of the festival are several, but basically, they include:

An opportunity for the citizens of North Dakota and the surrounding area to see the several colleges and divisions of the State University in action, portrayed by exhibits and shows with a wide interest for all.

Fun and frolic for the high school generation

Fun and frolic for the high school generation which includes bands, sports, theater, and dancing,

with liberal prizes and scholarships.

• A fostering of the festival tradition as being a typical characteristic of the friendly response of people in this great upper midwest. We hope to have the pleasure of seeing you on April 21, 22 or 23.

Fred S. Hultz

President North Dakota State University

Within a few months many of you will have to make one of the most important decisions of your lifetime; whether you should attend college and, if so, where? We at North Dakota State University would like the opportunity to help you make the right decision. We hope to do this through Sharivar, 1961.

Through Sharivar we try to give high school seniors a glimpse at college life as well as our own university of which we are proud. Departmental displays which feature the particular emphasis

own university of which we are proud. Departmental displays which feature the particular emphasis of that department as well as the many other exhibits by campus organizations all combine to give you an idea of what college life is like.

Aside from the scholastic aspects of college life we have planned an entertaining recreational program while you are here including such things as howling dances open houses at fraternities and

as bowling, dances, open houses at fraternities and sororities, and many, many other things. One of the outstanding features of Sharivar weekend will be "South Pacific", an all-student produced Broadway musical, which

will be playing three nights for your enjoyment.

The students at North Dakota State have worked hard to give you this tremendous opportunity to see college life. We hope you take advantage of it.

WAYNE HAMANN Student Body President



SHARIVAR SCHEDULE

FRIDAY, APRIL 21 Bowling in Union lanes for high schools 1:00-11:00 P.M. Open house in all colleges on campus 1:00-5:00 P.M. Style Show in assembly room of Home Ec building 2:00 P.M. Coffee hour for high school girls in Home Ec building 3:30-5:00 P.M. "South Pacific" in field house 8:15 P.M. Dance in Memorial Union Ballroom 9:00-12:00 P.M.

SATURDAY, APRIL 22

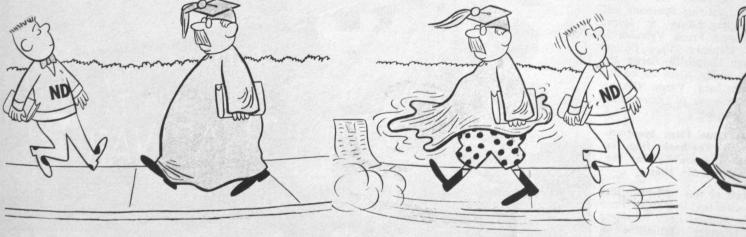
College Information program in Festival Hall 10:00 A.M. Open house in all colleges on campus 11:00-5:00 P.M. High school bowling in Union lanes 11:00-5:00 P.M. Scholarship interviews in Library 12:30 P.M. **Grain Products Tour** 1:30-3:00 P.M. 2:00 P.M. Style Show in assembly room of Home Ec building 2:00-4:00 P.M. Closed circuit TV in Minard Hall Open house in religious centers, dorms and fraternities 2:00-5:00 P.M. Open house at Kappa Alpha Theta, Kappa Kappa Gamma and Alpha Gamma Delta sororities 3:00-4:00 P.M. 4:00-5:00 P.M. Open house at Kappa Delta, Gamma Phi Beta and Phi Mu sororities 8:15 P.M. "South Pacific" in Field House 9:00-12:00 P.M. Dance in Memorial Union Ballroom

SUNDAY, APRIL 23 11:00 A.M. Religious services in campus centers 2:00-4:00 P.M. Closed circuit TV in Minard Hall Fraternity and dormitory open house 2:00-5:00 P.M. 2:00-6:00 P.M. Open house in all colleges on campus

Sharivar Committee



Paul Brackelsberg, publicity; Ona Carlson, co-chairman; Bruce Anderson, chairman; Judi Willert, publicity; SECOND ROW; Richard Clemenson, agricultur Donovan Eck, agriculture; Peter Otte, pharmacy; Howard Blackstead, activities; Keneth Johnson, chemistry; THIRD ROW: Don Schwartz, advisor; Dave Foley, arts as sciences; Walter Nelson, treasurer; William Bakken, engineering and Kurt Newman engineering. Not shown on the photo are Marx Olson, pharmacy; Carole Schultz and Toni Woodmansee, home economics: Collette Buhr, secretary; and Kathleen Enge Woodmansee, home economics; Collette Buhr, secretary; and Kathleen chemistry.





HERR GREEN

High School Graduates!

Meet Challenge of Space Age With Good University Training



MINARD HALL, home of NDSU's College of Arts and Sciences, was built in 1901 and has been twice ex-

LABORATORY SESSIONS give students a chance to see and test information they read about in books.

Arts and Science Offers Both Broad Learning and Careers



mendous demands on its citizens their instructor's messages. in the matter of understanding challenges of our rapidly-changing

The NDSU College of Arts and leges are taught there. Sciences can give you both the A freshman must broad general understanding you need to fit tomorrow's world, and the strong professional training you will have to have to earn a satisfying living.

Headquartered in historic, old Minard Hall, the courses taught in arts and science overflow into half a dozen other buildings on

Considerable remodeling has been done recently so that students in Minard Hall can enjoy the best possible facilities.

and new seating has been in Bison yearbook advised by the

PICTURES TELL stories better than words, communications students learn in practical sessions.

The world today's high school stalled to increase seating capac- Communications Department and senior will inherit will make tre- ity and aid students in getting Radio advised by persons in Com-

Every new student on campus what is going on and meeting the soon becomes familiar with Minard Hall, because so many of the courses required by all col-

A freshman must take English, mathematics, zoology and botany, all taught in Minard

As upperclassmen you will find yourself returning again and again to arts and science classrooms. You will go there to get your speech, your sociology, your history, your political science, your philosophy, your foreign languages and for education and psychology courses.

A great many students also take part in activities sponsored All the laboratories have been by the College of Arts and enlarged and modernized to meet Sciences. Most departments have the influx of new students. Class- clubs and special interest groups, rooms have been changed around like the Spectrum newspaper, the

munications and Speech.

The Music Department's Gold Star Band, Concert Choir and College Chorus provide students opportunity for musical expression and travel on concert

The plays, debate and speech therapy work of the Speech Department are well known throughout the midwest. Little Country Theater is world famous and activities of NDSU dramatics students in North Dakota outdoor drama have added a colorful page to North Dakota's book of tourist attractions.

The Physical Education Departments conduct a broad range of programs designed to improve the physical well-being of the NDSU student and to provide entertainment and relaxation. Students can take part in competitive varsity Football, Basketball, Track and Wrestling and many additional intramural sports.

Graduate Students Get Special Help



technological growth has been the increased need for persons who have training beyond the conventional four and five-year college degrees. Much of this training must come from graduate schools such as the one at NDSU. More than 300 students are en-

GRADUATE ASSISTANTS

perform valuable services

at NDSU by helping stu-

dents in laboratory.

Of these, 14 are working on their Ph.D programs, the high-

est university degree attainable.

Master's degrees are offered in more than 40 departments in all the six colleges. Last year 81 students qualified for this degree. This year, Dean Smith says, there will be at least as many.

Financial help is available for outstanding students who seek work about half time, and carry graduate degrees at NDSU. This a reduced load of studies. comes in the form of fellowships, scholarships and assistantships fi-

One of the results of our na-rolled in NDSU Graduate School, National Science Foundation tion's tremendous cultural and according to Dean Glenn Smith. and National Defense Foundation grants, financed by congress, give aid as high as \$2,200 a year per student.

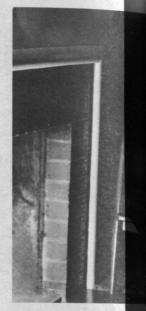
> Seven Ph.D candidates are earning degrees in plant science at NDSU with help from these grants. Two more have been awarded for next September.

Teaching and research fellowships offered in graduate school pay from \$1,600 to \$2,400 a year. Students enrolled under these

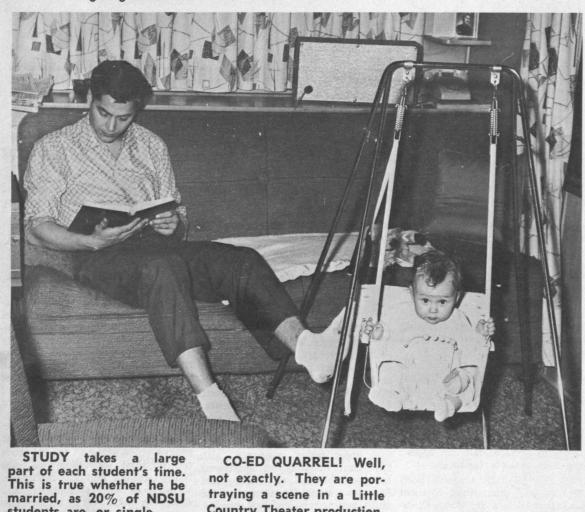
Students working on their gradnanced by the federal and state uate thesis in research projects governments and private organ- spend many hours in laboratory

LIFE at NDSU Challenges You

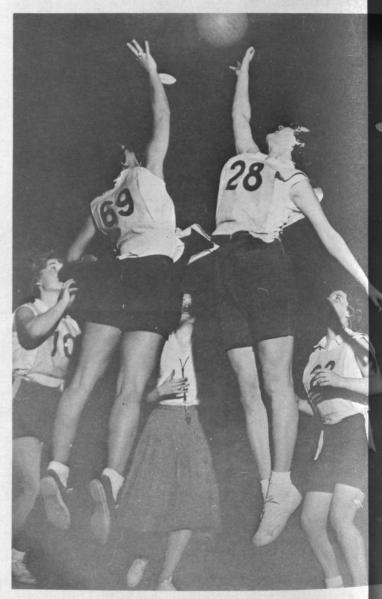




LONG UNCERTAIN LINE of freshman students awaiting registration instruction. Probably the only other time students will get in a line this long is graduation.



CO-ED QUARREL! Well, not exactly. They are portraying a scene in a Little Country Theater production.



A HIT with students is spring picnic time.

students are, or single.



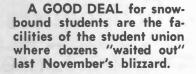


· · from Freshman Registration to Graduation



SPIRITUAL GUIDANCE s provided at several student religious centers on campus, each with a resident pastor.

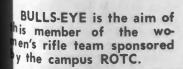
MARCH WITH NDSU band if you have a yen for music. Whatever your musical inclination there's a place for you in campus music groups.



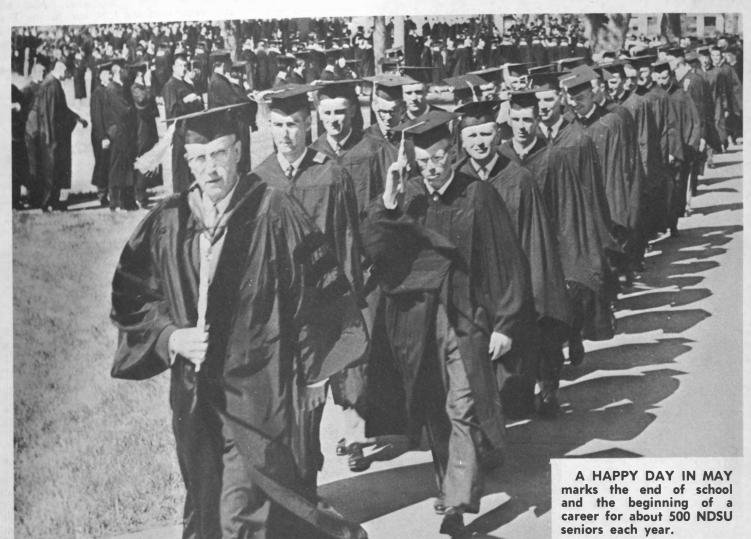
UP IN THE AIR after a Pasketball, are these women's physical education lass members.











New \$700,000 Building to Give NDSU Chemistry Top Facilities

soon replace Ladd Hall as the chemistry. headquarters for the NDSU College of Chemical Technology and specialized areas. You may study these fields plus a strong desire provide superior laboratories, re- agricultural bio-chemistry, ana- to succeed in chemistry are the search rooms, classrooms and lytical chemistry, inorganic chem-best insurance of success. library for the several branches istry, organic chemistry, coating of chemistry.

lege reflects the great importance and the Ph.D degree can be seof that study, and is not surpris- cured in organic chemistry, bioing in view of the fact that chemistry and protective coatings. chemistry is involved with just about every aspect of your lives.

The food you eat, the clothing you wear, the fuel and fertilizer farmers use, and even the paper this edition is printed on involve a lot of chemicals. The study of chemistry has unlimited horizons.

lection of courses, become a \$2,400.

This year they gave a hand teacher of chemistry in high Dr. Frank L. Minnear, dean of painted portrait of the late dean school or college, an industrial chemistry, advises high school stu- of Chemistry, Dr. R. E. Dunbar.

technology or physical chemistry. Growth of the chemistry col- The college offers graduate work

> The NDSU College of Chemical Technology is accredited by the American Chemical Society and ranks with the top two per cent of the colleges in the United States in the number of accredited chemists it graduates.

A number of scholarships and fellowships are available for stu-A student studying chemistry at dents who enroll in chemistry. forms other services. NDSU may, with the proper se- They range in value from \$100 to

or governmental chemist or a dents to get as much mathematics, The picture is hung in Ladd Hall.

A new \$700,000 building will graduate student in advanced science and English as they can before coming to NDSU to study Emphasis at NDSU is in six chemistry. Sound knowledge in

> Need for good backgrounds is illustrated by the high grade average of the 116 students enrolled in the College of Chemical Technology.

Chemistry students develop their professional and social relationships through membership in the Chemistry Club. This organization offers annual scholarships, selects members to the American Chemical Society, maintains a fund for short time loans to chemistry students and per-

WEDDING GOWN is a class project in home economics clothing class.

EXPERIMENTING and recording and analysing re-sults take up much of chemistry students' time.



NDSU Home Economists Challenge Students to Exciting Careers

ics when it held its first class in research and the fields of radio, facturing firms, stores, and mus-

The College of Home Econ- relations. omics has pioneered in a lot of

Whichever future you choose, homemaking or a career, home economics can give you the best possible training," home economists explain.

Even with growing enrollment, all the way from \$5,000 to

Women in some of the courses areas, and today is working hard at NDSU spend six weeks in the wise have opportunity to join to tell everyone about the tre- home management house, which Tryota, the national home econmendous possibilities for young was the first one in the United omics organization on campus, or

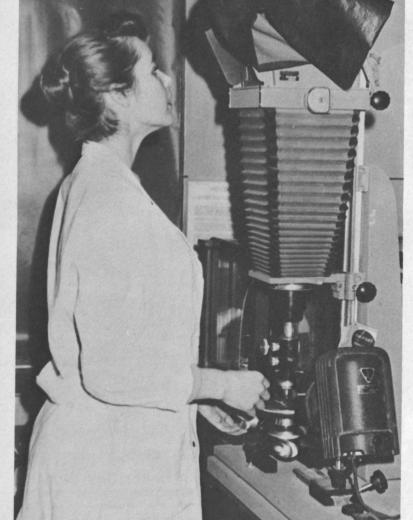
ers Training Center at Casselton, N. D., in 1929.

was built in 1954. It demonstrates economics. "It includes not only universities cannot supply the harmonious arrangement of ma- the skills and techniques of manneed for professional home econ- terials, design, colors, fabrics, aging a home but the social, psyomists whose salaries can range equipment and furnishings. So it chic and artistic values of family is an effective setting for teach- living, as well. Never in history Job opportunities in home econ- home and family living.

became the fifth institution of dietetics, teaching, retailing, in- ics students have the chance to higher learning in the United stitutional management, demon- take professional trips to Minne States to promote home econom- stration work, interior decorating, apolis and Chicago to visit manutelevision, newspapers and public eums, and to gain career information.

Home economics students like women who have home economics States when it was built in 1923. Phi Upsilon Omicron, the national The university also establish- honorary and professional home ed the first Off Campus Teach- economics fraternity.

"Home Economics at NDSU grew out of the concern for the The fine, modern building which welfare of families," states Dr. houses home economics classes, Caroline Budewig, dean of home ing the ideals and values of good has education for this vital area been more important."



PHOTOMICROSCOPY is telling what a substance is.

DEMONSTRATING foods in a well equipped home economics laboratory gives students practical experience.



New Building and 5-Year Program Give College of Pharmacy Healthy Future

armacy students talk a language their own.

The College of Pharmacy at OSU is one of the leading ining grounds for pharmacists the nation and it is one of largest in the midwest.

addition, the college is movahead on a new five-year prom designed both to give stuts the best of education and provide North Dakota with petent, progressive pharma-

brand new \$660,000 building, ro Hall, still being completed some rooms, provides the colwith its first home designed cially for pharmacy training. class rooms are light and and its laboratories spacious

wherever you go on NDSU the new building has facilities for Pharmacognosy, Pharmacology, pus you will see white-coated study with radioactive isotopes, a Pharmacognosy, Pharmacology, pus you will see white-coated study with radioactive isotopes, a Pharmacy, Radio Isotopes, Hospigreen house for studying medicin- tal Pharmacy and Pharmacy Adt doesn't take you long to find al plants and many other convenministration. who most of them of are. iences lacked by the former head-

> of their new building and happy Pharmaceutical Chemistry. that the College of Pharmacy now has a permanent home. From the American Council of Pharmaceutitime pharmacy training started on cal Education and is a member of the campus in 1902, as a two-year course, training had to be conducted in makeshift quarters. Even after Francis Hall became Pharmacy this school year has "home" in 1931, the college was handicapped by the fact the building had been designed for other purposes.

Students at NDSU can specialize in any of a dozen different areas of pharmacy, all of which have numerous career possibilities.

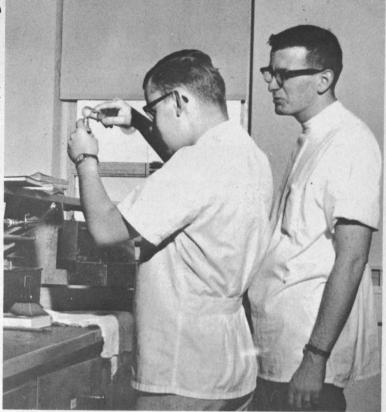
Some of the course areas inwell-equipped. In addition, clude Pharmaceutical Chemistry,

A master of science degree is quarters, Francis Hall, shortly to offered through the NDSU Graduate School in most areas, and a Students and faculty are proud Ph. D. degree can be obtained in

The College is accredited by the the American Association of Colleges of Pharmacy.

Enrollment in the College of been approximately 300.

LABORATORIES are another home to pharmacy students. They spend a lot of time in these modern facilities in their new build-



Sky No Limit to Careers **Open to NDSU Engineers**

The engineering profession has undergone a tremendous boom ever since World War II.

That demand for people with engineering skills continues un-

One of the reasons is that a good many of the scientists now taking speculative looks at space are engineers. Another is that the problems of building and guiding the huge new machines which are now pioneering space exploration are those that engineers have to solve.

The excitement of the field and the career opportunities certainly contribute a lot to the fact that the NDSU College of Engineering has the largest enrollment of any of NDSU's col-

Another inducement to student enrollment in the College of Enquality training and the variety of courses offered at NDSU.

ture, Agricultural Engineering, Architectural Engineering, Civil Engineering, Electrical Engineering, Mechanical Engineering, Industrial Engineering, and Physics. You can also do graduate work degree in most fields.

The College of Engineering through its Engineering Experiment Station undertakes a

great many research projects for private and governmental groups.

Through its Extension Service, it provides educational services to North Dakotans generally by short courses, conferences and workshops and publications.

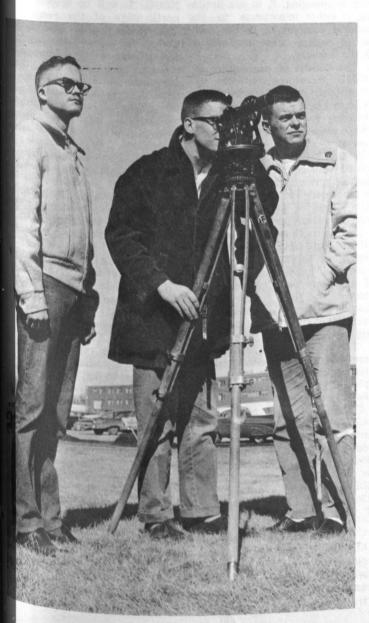
High School students interested in engineering should have as much mathematics and science as they can get. One of the best insurances of success in the rigorous engineering course is to have as sound a high school background as can be managed.

Engineering students have opportunity to take part in a lot of professional groups. Student branch societies exist on campus for eight national engineering organizations. In addition, there are such groups as Radio Club, Sigma Phi Delta, national social fratergineering has been the high nity, and several national engineering honor societies.

Students participate in such You can specialize in Architec- campus-wide activities as Sharivar, where many of the most dramatic exhibits are arranged by

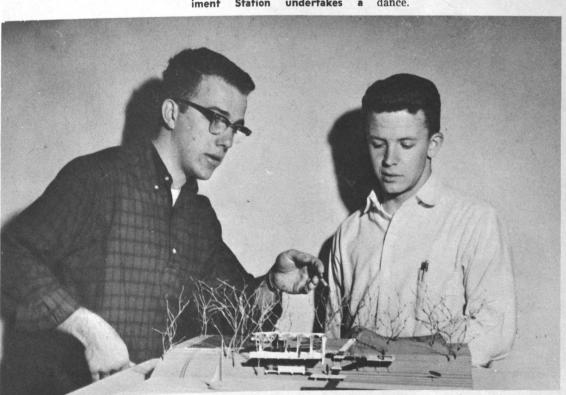
One of the big events of the spring season is the campus celebration of the engineer-sponsored leading to a master of science St. Patrick's day program. Engineers elect a St. Pat and a St. Patricia to head the festivities and the whole affair ends in a





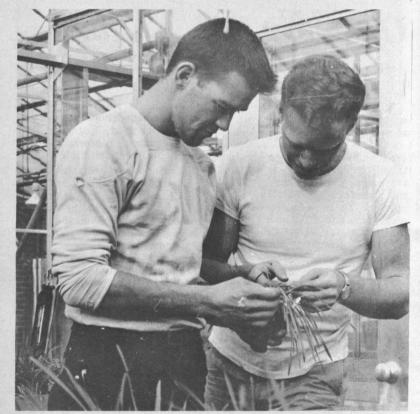
BIG VIEW of a tiny segment of the campus is gained by freshman engineer looking through the eye piece of a transit in a surveying course.

SCALE MODELS of building and grounds are laboratory projects for architecture students at NDSU.





WALSTER HALL, new \$750,000 building going up on campus, is still a skeleton. It frames the campus in this view.



RUST RESEARCH of NDSU agronomists is aided by student work, and goes on year-around in special greenhouses.



JUDGING AWARD Saddle and Sirloin C Little International stock and crops show ulates student interest learning.

College of Agriculture Well Serves Growing, Changing Farm Industry

Agriculture is still the nation's ed in the plans. number one industry. Just about Another indication of the 40 per cent of the people in the portance of agriculture on United States either earn their NDSU campus, and in North Dalivings on farms or from farmrelated industries.

This means, that while agriculture is changing, it is not declining in either importance to the north edge of the campus national economy or in the num-west of the football stadium. ber of persons who are involved in the industry.

The College of Agriculture at NDSU, therefore, continues its traditional role of serving agriculture by research and by training young people to take their places in the agricultural industry.

A new \$750,000 building, to be named Walster Hall after the late dean of agriculture, H. L. Walster, is scheduled for completion next fall. It will be a University agricultural research center.

The first floor will contain offices and laboratories for the department of soils. The second floor will house the department of agronomy and its crop laboratories. The third floor will be shared by the departments of animal husbandry, plant pathology and horticulture.

The structure of reinforced concrete surfaced with brick is taking shape west of the new pharmacy building which was built last year.

The agriculture engineering building also is scheduled for farming "know how."

completion soon. This will mean NDSU serves mostly study

hat it addition of part of the second floor over two existing laboratories. Three classrooms, a small laboratory, some additional facil- from all over the midwest ities and a brick facing for parts from many foreign countrie

SOIL TESTING service offered by College of Agriculture provides farmers with needed information and gives students both training and part-time work.

kota, is the new \$2,000,000 se research center the Departme Agriculture is planning to but NDSU. It will be erected on the College of Agriculture has ferred land to the federal go ment for a building site and lease additional land to it for the needed crop plots. Another quarter section of land was purc by NDSU adjoining univ land to provide additional ne crop space.

The College of Agriculture of fers opportunity for study many career fields. clude Economics, Soils, Education, Engineering, Ent ogy, Dairy Husbandry, A Husbandry, Poultry Husbar Horticulture, Bacteriology, Pathology and General Agricu

Graduate work is offered in almost all departments, and Ph.D degree can be earned in Entomology, Plant Science or Animal Science.

More than 450 students are enrolled in the regular Colleg Agriculture courses. In addition, each year 75 to 100 young ers who are unable to attend ular classes attend an eight-week "short course" and increase

from North Dakota, but i tracts young people who ar terested in plains-type farming of the older structure are includ- number of its graduate stu are from Europe and Asia.

NDSU also is the center many agricultural gatherings the headquarters for several service and farm-related acti like 4-H, county agent work experiment stations.