Sharivar Festival Will Show NDSC’s Challenge to the ’60’s

Students of NDSC will play host April 22, 23 and 24 to thousands of visitors who will come to the campus to take part in the annual Sharivar festival.

Sharivar is a student-conducted celebration designed to show visitors as much as possible about the school. Not only are the classrooms and laboratories open for inspection but special displays will be erected in each department. Campus cultural and social life will be on display, too.

Many spring activities have been scheduled for the Sharivar weekend in order that campus visitors will have a chance to view the college community in operation. Highlighting the activities will be nightly performances of Bison Brevities, a campus variety show.

Some of the other Sharivar attractions will include a military drill team display, a chem-mystery show, dormitory open houses, band and choir concerts, a sock hop and other recreation.

All the religious centers will have open house for visitors. The new Lutheran Student Center and the new Newman Center are evidences of the importance of religion in campus life at NDSC.

High school students will have a chance to compete for prizes in the high school bowling tournament. Hundreds of dollars will also be given away in prizes and scholarships.

Jim Bergeron, junior in agriculture, and Arlene Christianson, home economics senior, are co-chairmen of the event. Helping them in planning and coordinating is a central committee of 20 students and three faculty advisors.

“We hope Sharivar will attract everyone,” states Bergeron. Miss Christianson adds that “Sharivar is a mean of showing our campus to parents of NDSC students, NDSC alumni, other residents of the state as well as high school seniors and their parents.

We aim many of the Sharivar activities at the high school senior because about this time of year many of them are trying to decide what to do after graduation and we would like to encourage them to attend college.”

The editors and staff of this “Special Sharivar Edition of the Spectrum” join in saying “We hope that you will come to see our campus and sample college life.” This paper gives you only a preview of a Sharivar that is too big for any publication. You must see it for yourself!

H. S. Keglers Meet Is Set

The Second Annual Sharivar High School Bowling Tournament will be held April 22-23. It will be held at NDSC Student Union during Sharivar.

The tourney will have team events only and handicap will be based on 180 scratch with a two-thirds difference spot.

Entries are limited to four teams per school. The trophies will be awarded by the North Dakota Bowling Proprietors Association.

No entry fee is necessary to enter.
Greetings . . .

The people of this region respond joyfully to festive occasions, taking advantage of every opportunity for sociable and friendly contacts with one another. One of our oldest campus buildings bears the name Festival Hall, as early evidence of the get-together tradition on this campus.

This spring the students of the College, assisted by many staff and local civic groups, are again embarking on an intriguing, exciting annual festival, for which the name SHARIVAR has been selected. Its purposes are several but, basically, they include:

- An opportunity for the citizens of North Dakota and the surrounding area to see the several schools and departments of the college in action, portrayed by exhibits and shows with a wide interest for all.
- 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 area. It is a real privilege to extend to you and all a hearty invitation to join us for the full enjoyment of this event, April 22, 23 and 24.

Sincerely,
FRED S. HULTZ
President

High School Seniors

What probably will be one of your biggest decisions of your life, you must make soon. Will you continue your quest for education by attending college?

We students at NDSC want to help you make this decision. That is one of our purposes in sponsoring Sharivar. Sharivar means festival and that, in essence is what our April 22-24 weekend will be.

But we also plan to give you an idea of what college really is. Thus each of our schools will have displays in the subject taught. Campus organizations, likewise, will sponsor exhibits depicting their activities. These displays will help show you what the college student does in both class and extracurricular activity.

Blue Key fraternity is sponsoring Bison Brevities during Sharivar. This is a student-produced show featuring vaudeville acts which this year look better than ever.

A program of scholarship testing will give you an opportunity to assess, how well you might do in college.

This is but a sample of the things we will have for you to see and do.

I want to cordially invite you to attend Sharivar for the fun you can have and to get help in deciding about attending college.

We are looking for you April 22. Sincerely,

ALLYN HART
Student Body President

About This Newspaper

This special Sharivar edition of the Spectrum continues a long tradition for NDSC students in publishing one college newspaper each year especially for the high school seniors.

As in the past several years, the majority of the work in assembling material and editing the paper has been done by the communications editing class.

Editor in chief is Bob Thompson, retiring editor of the Spectrum. Managing editors are Julie Staber and Paul Shea. Warner Johnson is business manager.

Other workers are Sara Lou Eijken, Arlene Christianson, Dale Granshovd, Donna Holcomb, Warren Matheus and David Ward.

Photographs in the publication are by Mayo Piegol, Lowell Anderson and George Hagen and the college communications office.

Mr. Verne Nies, assistant professor of communications, is advisor for the publication.

The staff owes thanks to the special Sharivar publicity committee members, to deans of the various schools and to many others among staff and students for help in gathering material.

The publication of financed by the board of student publications and mailed by Blue Key fraternity.

Here Is Sharivar Committee

It takes a good organization to stage an event as large as the 1960 NDSC Sharivar. Below is the group directing this year's events. One way or another, however, every person on the campus will be helping make this year's festival outstanding.

Standing, left to right: Don Schwartz, advisor; Gary Lounier, Max; Dave Moore, Bismarck; Jane Ann Munro, Fargo; Donna Holcomb, Minot; Mary Stenson, Grafton; Judy Freeman, Fargo; Cathy Kiefer, Fargo; Collette Buhr, Buffalo; Carol Tuntland, Sheyenne; Lenora Piepkorn, Fargo; Arlene Christianson, Goodridge, Minn.; and Jim Bergeron, Bottineau.

Seated, left to right: Phil Roesch, Downer, Minn.; Jim Lamont, Rolla; Paul Brackelberg, Mohall; Bruce Anderson, Fargo; Dick Bergequist, Washburn; Maynard Iverson, Mohall; Bob Strand, Williston, and Dallas Zimmerman, Lehr.

Not pictured: Larry Hunter and Nancy Euren, Fargo; and Advisors Dale Brostrom and Robert Crom.
NDSC's 7 Schools Offer 1,400 Courses

Arts and Sciences Give You Basic and Cultural Training

Booming enrollments and increasing interests in cultural subjects have made the educational job of North Dakota Agricultural College School of Applied Arts and Sciences doubly difficult, according to Dr. Seth Russell, dean of the school.

One of the ways the school is adapting to the educational needs of the 60's is by enlarging some of its classrooms and laboratories in 58-year-old Minard Hall, the school headquarters.

A theater-type lecture room completed this year will seat 250 students who will learn basic courses. This enables one instructor to handle more students in the first two-year courses, and frees other instructors to handle the smaller, more specialized classes attended by juniors, seniors and graduate students.

More such larger rooms are to be made by consolidating smaller rooms, Dean Russell says. Laboratory capacity in the botany and zoology departments has also been increased, the dean says. This has been accomplished largely by replacing older, more cumbersome desks and fixtures with more modern ones, and by using floor space more efficiently.

Another way the school is adapting to the increasing educational needs is by increasing the number of evening, extension classes offered, and even by "going on the air" with college credit classes broadcast over TV.

Nearly 100 students are enrolled in the current TV class offered in the department of education and psychology, "Introduction to Guidance."

The NDSC Concert Band and Choir, which have their headquarters in a separate campus building with the music department, are making the college well known through annual tours outside the state.

In the most recent of these trips, the band visited in Montana, North Dakota, Manitoba and Saskatchewan. The choir also completed a six-state tour just a few weeks ago.

Little Country Theater is one of the campus landmarks and has made NDSC widely-known in the dramatics field. Each year the theater presents five top-grade plays. Dr. Frederick Walsh, head of the NDSC speech department, is also known for his part in organizing and directing state historical pageants during the summers.

Cultural opportunities on NDSC campus are growing constantly. Each year a series of lyceum programs are offered which bring to Fargo some of the top musical and dramatic groups.

Physical education at NDSC places emphasis on the individual. There will be more and more opportunity for students to take part in individual "carry over value" sports as well as team play, at NDSC.

The women's physical education department has broadened its program by setting up play days and meetings with Moorhead State College and Concordia in Moorhead.

The physical education departments are centered in the NDSC field house with the Air Force and Army ROTC.

The two military departments give basic military instruction to all male students, and offer commissions to selected students who continue their military training for the four years they are in college.

CHOIR GROUP is only one of many musical groups on campus.

FORM is important in bowling, students in women's physical education learn. Every student has a chance to take part in physical education.

THEATRE-lecture room enables skilled teachers to instruct 250 students at once in some of the basic arts and science courses.

CHARY WELCOME is given to Sharivar visitors by Charlie, thinnest man on the NDSC campus.

see you in ten years, boys!
SHOWER ROOM Follies: People who sing in bathtubs have nothing on NDSC dormitory girls. They have devised shower-room ballet.

SOFT LANDINGS are the mark of the skilled tumbler. Tumbling is just one of the many recreational skills taught by the physical education department at NDSC.

FRESHMEN line up for help in their first NDSC registration.

"WE HAVE TO WALK because the broom won't start," complain these witches in a Little Country Theater Production.
Community Life

"All work and no play makes Jack into a square."

The NDSC program is arranged so that both Jacks and Jills have a chance to get a rounded background by taking part in a number of professional and social activities. Many of the recreational activities are centered around the student union which also provides many student services. The library is another campus gathering place, but most of the activities there are more cultural—and quiet.

Student religious centers provide places for both spiritual guidance and recreation. Almost every campus building houses some interesting and educational outside of class activities.

EVERY GIRL'S A queen at the Military Ball.

FRESHMEN GIRLS are marked women, especially when they neglect to wear their "beanies".

NIGHT TIME is the right time at NDSC dorms, whether you wish to date or to study.

SOLITUDE among hundreds is found by this student as he speculates tonight's activities and tomorrow's classes in the library foyer.
1960's Grads Need Technical Training

Home Ec Program Offers Courses For Everyone

"A broadened program planned for the 60's will enable every student on NDSC campus to take at least one course in the School of Home Economics," according to Home Economics Dean Caroline Budewig.

"Class offerings under our new Home and Family Life Program will involve all aspects of home economics," she said. Both men and women students will be able to take courses in crafts, arts history, nutrition and food preparation, textiles and clothing, and child development and family relations.

The purpose is not only to give students in other schools a chance to see that home economics is not just cooking and sewing, but also to permit them to share in some of the valuable training which formerly was restricted to girls interested in home economics professionally.

Other changes contemplated in the near future, Miss Budewig says are:

- A new major in child development and family relations for which planning already is underway. Some of the advanced work would be done at the Merrill Palmer school in Detroit.

- A specialized training center for workers in the field of child development.

- Men are becoming more and more a part of home economics, particularly in research and administration, Miss Budewig points out. She says that the NDSC home economics school will try to interest more male students in taking home economics.

- Graduate level training will be expanded to offer degrees in the textile and clothing department and in the child development and family relations department during the decade of the 60's. Already there are graduate degrees available in food and nutrition and home economics education.

- The broadening field of home economics training being offered by NDSC fits into the changing needs of our communities. Miss Budewig explains that not only are girls being trained for the traditional home economics roles of teaching, extension work, public and institutional nutrition, and retail services, but they are being adapted to such dramatic new fields as production and marketing specialists, workers in the field of advertising and journalism, public relations, and radio and TV presentations.

REAL LIVE KIDS enrolled in the campus nursery help train coeds studying child development.

Chemistry School Trains Top Scientists

Dr. Charles Fleetwood and several students will demonstrate glass blowing. All the chemistry laboratories will be open and guides will explain equipment to visitors.

Chemistry School of Chemical Technology is housed in Ladd Hall, named for the late Dr. Edwin F. Ladd who started the school as the Department of coating technology and became dean of the college. He is remembered also as a congressman who initiated accurate labeling of canned foods.

The School of Chemical Technology is a specialized training facility in the chemical field in the modern world. It is a specialized training facility, particularly in research and teaching industries.

To serve all these needs the school has been continually improving its research and teaching laboratories so it can properly train people for work in the chemical and teaching industries.

Students and researchers in the School of Chemical Technology utilize such modern machines as infra-red and ultra-violet spectrophotometers used to identify chemical compounds, a large centrifuge which can determine the molecular weight of elements and several other chromophotographic instruments and scales capable of measuring unbelievably small values.

WILL IT BE A GREAT DISCOVERY? You might think so from the rapt expression of these chemistry students making routine experiments.
Industry Needs the Skills You Can Learn At NDAC

Engineers Seek to Adapt Man To Demands of Space Age Travel

One of the challenges of the 60's for the NDSC School of Engineering is the need to learn more about adapting men to the fantastic machinery they will use in the space age," states Dean Frank Mirgain of the school.

He points out that the scientist knows enough now to put a man into space, but how to bring him back to earth alive is yet to be solved. "This," he says, "is only one of the problems engineers must solve to adapt creatures of flesh and blood and relatively slow responses to steel and plastic machinery and how they react to stresses created by supersonic machinery."

The school already has broadened its training base to include courses in human psychology and physiology so engineers may better understand better the human mind and machinery and how they react to stresses created by supersonic machinery.

The electrical engineering department of the school operates a meteorite tracking station in cooperation with the National Bureau of Standards. Another recent addition to the department is a $250,000 surplus army radar unit.

The possibility of irrigation in North Dakota prompts a lot of research and study by the agricultural engineering department. Workers are developing "land forming" methods to use in the leveling of land for irrigation.

The school offers courses in nuclear physics so that students may study in this highly-technical field. Two instructors are going to the Atomic Energy Commission summer school this year.

One of the reasons the NDSC School of Engineering has the largest enrollment of any school at the college is that North Dakota youth are well adapted to engineering, Dean Mirgain says. "They know how to plan work, they are familiar with machinery and they know that you have to keep building and adapting to increase output."

Turning machine parts on a lathe gives mechanical engineers practical know-how.

FUTURE VET learns about bacteria in vet science laboratory.

750,000 Building To Promote Agriculture Science Program

Construction of a $750,000 agriculture science building to start this summer will help the NDSC School of Agriculture maintain its top level rating in agriculture training and research, according to Peder Nystuen, assistant dean of agriculture.

The structure will house offices, laboratories, and conference rooms to give scientists and technicians more space to carry on their work in improving North Dakota agriculture.

The new building will be located north of the Sheppard Live-stock Arena and across from the new pharmacy building.

Two new ranges of greenhouses will be completed soon on the southwest corner of the campus. These ranges will be used by the plant pathology and plant physiology departments for research in developing disease-resistant strains of cereal crops.

A spacious research laboratory has been added to the veterinary science department with laboratory equipment. Rooms also have been rearranged in Van Ee Hall to meet the expanding needs in that department. Researchers in the new laboratory study parasites and the way they affect North Dakota livestock.

The agronomy department conducts studies in crop improvement, production, and management and also research in disease control and resistance. This is done both in the greenhouse and in the field. The soils department is experimenting with fertilizers, soil management and irrigation.

Insect pests which reduce farm income are studied by the entomology department working in hand with the agronomy department. For example, they seek control of the wheat stem sawfly, common pest in the northwestern areas of the state. They also have just completed the only work in the world done on the life history of the barley thrips. Dr. Richard L. Post, associate entomologist, was in charge of the project. The School of Agriculture is also developing some newly acquired land.

Studies in irrigation practices are to be conducted at the Carington Irrigation Experiment Station. The school also has a 320 acre plot which was purchased last summer northwest of the campus, and a 320 acre plot west of Mapleton donated as the Dalrymple Experimental plot.

Completion of the new Animal Nutrition Center last summer which replaced the old barns on the north side of the campus, gives a place to study the value and quality of feeds for cattle, sheep, and hogs. The poultry husbandry department hopes soon to replace the research building lost to fire in November.

MODERN DAIRY PLANT trains students in modern techniques.
New Building and 5-Year Plan
Boom Pharmacy Training

Probably nowhere on NDSC campus are the changes being made to "adapt to the 60's" so dramatically evident as in the School of Pharmacy.

A new $660,000 building is nearing completion and by next fall the school will be housed in a new home. This structure, of latest, fire-proof design, will have class rooms, offices and laboratories especially designed to reflect the latest developments in pharmaceutical training.

This year, also, the school is moving into an expanded five-year program which is becoming standard throughout the country. The rapid advances in medical learning and treatment of disease have dictated a more detailed training for pharmacists.

The five-year course will allow students to take a more logical sequence of courses. It will give them opportunity to take elective courses in humanities and social sciences or additional professional subjects.

The school trains both men and women to fill the ranks of a rapidly-growing army of pharmacists, many of whom are independent business people owning their own drug stores. Opportunities for women are especially good in this field, and the NDSC School of Pharmacy has about 25 coeds enrolled.

In addition to the regular bachelor of science degree in pharmacy, students may continue their training and earn master of science degrees in pharmaceutical chemistry, pharmacognosy, pharmacology, pharmacy and hospital pharmacy. Still more advanced work is possible towards a doctor of philosophy degree in pharmaceutical chemistry.

The school is accredited by the American Council of Pharmaceutical Education.

PHARMACY BUILDING nears completion.

Sharivar Schedule

FRIDAY, APRIL 22
1:00-11:00 P.M. Bowling in Union lanes for high schools
1:00- 5:00 P.M. Open houses in campus schools
3:30 P.M. Style show in assembly room of Home Ec Building
2:00- 5:00 P.M. Open house at religious centers, dorms and fraternities
8:00 A.M. Bison Brevities in Field House
9:00-12:00 P.M. Sock Hop in Memorial Union Ballroom

SATURDAY, APRIL 23
9:00 A.M. Scholarship interviews in Library
10:00- 5:00 P.M. Open house in all schools on campus
10:00-12:00 A.M. Open house in religious centers, dorms and fraternities
10:00-12:00 A.M. Movies for children in Festival Hall—Baby-sitting service
10:30- 3:30 P.M. Drill team competition in Field House
10:30-12:00 A.M. Child development observation laboratory in session in Ceres Hall
12:00 A.M. Luncheon for scholarship candidates in Ceres Hall dining room
1:00- 5:00 P.M. Open house in religious centers, dorms and fraternities
2:00- 4:00 P.M. Movies for children in Festival Hall—Baby-sitting service
3:00- 4:00 P.M. Open house at Kappa Alpha Theta, Kappa Kappa Gamma and Alpha Gamma Delta sororities
4:00- 5:00 P.M. Open house at Kappa Delta, Gamma Phi Beta, and Phi Mu sororities
1:00 P.M. Chem-stery Show in Ladd Hall
2:00- 3:00 P.M. Student recital in Putnam Hall
3:30 P.M. Style Show in assembly room of Home Ec Building
8:00 P.M. Bison Brevities in Field House
9:00-12:00 P.M. Awarding of scholarships

SUNDAY, APRIL 24
11:00 A.M. Religious services at campus centers
1:00- 5:00 P.M. Open house in all schools on campus
2:30 P.M. Joint concert of campus chorus and band in Festival Hall
2:00- 5:00 P.M. Fraternity and dormitory open house