

spectrum

SU Senate Priming for Action



Photo by Steve Justad An inside view of the new boiler plant offers a look at one side of the control section for the Cleaver Brooks steam boiler.

New

By Doug Manbeck

Changes in anti-pollution laws and a need for additional heating capacities forced the University to convert its boiler plant facilities, H.D. Stockman, SU's vice president of finance said.

The main boiler plant, which supplied most campus facilities, was changed to a natural gas and fuel-oil fired boiler this past year, Stockman said. The old boiler was fired with coal.

The conversion to natural gas and fuel oil from coal resulted in increased costs. The main reason behind the new plant was to place the University in compliance with anti-pollution laws, according to Stockman.

The finance chief said the cost difference in fuel alone would total "somewhere between \$30,000 and \$50,000 per year."

Stockman said these additional costs were offset by labor reductions because one less person per shift was required through the conversion. He said the extra men were transferred to preventative

Fargo-Moorhead area firms did the work on the plant after the University received approval of a \$656,000 budget request from the 1971 State Legislature and State Board of Higher Education.

Coal will be used only under emergency situaflons, the administrator said. The present fuel supply provides for a 10-day backup in case fuel shipments are delayed, according to Stockman.

Tentative plans call for conversion of remaining coal boilers to natural gas fired boilers, Stockman said.

The switch to fuel from coal was not quite as expensive as the increased fuel costs may indicate, he said, because original installation of a coal boiler ind the additional labor needed cost more than a new gas boiler.

The University plans to use natural gas when possible in the boiler, instead of fuel oil, because "natural gas is cheaper," Stockman said. The school also has the option of using coal in an emergency.

A 12-foot deep reservoir in the bottom of the new boiler plant near Minard Hall holds 190,000 gallons of heavy oil, said Dick Lingle, powerhouse

Lingle said the boiler burns 900 gallons of fuel hour with a maximum heating capacity of 130,000 pounds of steam per hour.

The boiler is designed to supply all present university needs and possibly some planned expansion

of campus facilities, Stockman said.
The massive water heater, a Cleavers Brothers High Pressure Tube Boiler manufactured in Milwau-

kee, Wis., has an operating weight of 158,000 pounds and holds 80,000 gallons of water, Lingle

The conversion was not without a hitch. Stockman said the University had to give a rebate to students living on campus during the second summer session because they didn't have any hot water for a few weeks.

The lack of hot water forced the Memorial Union food center to use disposable dishes, and research divisions had to make some kind of arrangements for temporary hot water. Married students renting rooms on campus were also without hot water, Stockman said.

Besides providing hot waterand heat, the new boiler supplies steam for steam absorption air conditioning units in the new dining center and student union, Stockman said. He anticipated subsequent air (more Boiler on page 6)

Bernier, Clower Outline Plans By Gary Wright

With the first student senate meeting of the new school year tentatively set this Sunday, student government will be priming itself for action.

Although elected to office last January, the student politicians apparently have not forgotten their campaign promises.

Filing for the executive positions had started slowly last year, but five separate president - vice president tickets were on the ballot by voting time.

Paul Bernier and Bill Clower, who won the election by 110 votes, ran on a platform based mainly on promises to change current student government policies and to work for "better representation of individuals."

Bernier also said that the Grade Appeals Board was in jeopardy when he and Clower assumed office in February but that the board now has a well defined position in University Senate and will continue to be available.

Another successful program initiated by Bernier and Clower was the Day Care Center which opened Thursday. "From the time we got into office we held meetings on starting a center. As we got the ball rolling others took up the cause and over the summer the Dean of Women and the CDFR (Child Development and Family Relations) Department made the final arrangements," Bernier said.

A new campus voting precinct and the Student Advocate Program are also listed by Bernier as accomplishments of his administration.

The new precinct, made up entirely of students, was brought about through student government lobbying at Fargo City Commission meetings, according to Bernier.

The Student Advocate Program, designed to provide students with free consultation concerning their rights, was greatly helped along by Les Pavek, dean of students, and Dick Crockett, the president's legal consultant, Bernier said.

Other proposals, however, have not fared so well, according to the student president. His proposed car starting service has yet to be implemen-

(more Senate on page 9)

Knocks Jackson



Photo by Phil Schermeister Phil Jackson, pro-basketball player of the New York Knickerbockers, discusses his participation in the presidential campaign of George McGovern, D-S.D.

Phil Jackson, former Williston and UND star and now a eastern North Dakota campaign number of the New York Knieks, swing on behalf of the Democratic presidential candidate.

The Vietnam was the

chief reason for him to be out speaking for McGovern, Jackson said He said Nixon risked the possibility of a nuclear war when he gave the orders to mine the North Vietnamese harbors last May

Jackson was skeptical of Nix on's plan for peace, calling it "A ce for the wrong reason-good for nothing but votes.

Jackson attacked the present Jackson attacked the present Republican administration for having "the wrong set of priorities. Nixen's chief concern is for the people in the \$25,000 income bracket whereas McGovern wants to help the small wage earner."

"He criticized Nixon's trips to China and Russia, calling them "hack-assward ways of trying to

China and Russia, calling them "back-assward ways of trying to negotiate peace in Vietriam."
"It's time to get on the bandwagon and work for McGovern, who is ready to make necessary changes in our country," Jackson told the audience.
"The choice is very easy to make. The results of this election will affect our whole life and that of our children," Jackson said. In a separate Interview, the Williston native said, "I can't

Williston native said, "I can't stand another four years with Nixon. He's taken us back into the '50s in a four-year span."

Jackson said he did not vote

in the last presidential election, (more Jackson on page 4)



Card Key Rules Change

Card keys for women's dorms will no longer be handed out in the Music Listening Lounge, said Katherine Ross, coordinator of residence halls.

"Each girl will receive her card key at her dorm's instructional meeting. She will carry her card key with her at all times. The card keys will then be checked once a week. All the girls have to do is check the card key numbers with a staff member," said Miss Ross.

Along with fulltime possession of the card keys not only comes added freedom but also the added responsibility of not losing the card key. Last year, if a girl lost her card key, she was fined \$25. Now, under the new system, the girl would have to pay the installation cost of an entire new system for her hall, which might be as much as \$200, said Miss Ross.

"If you carry your card key in your billfold 24 hours a day, you stand the chance of losing it 24 hours a day," said Miss Ross.

"The fact that we even have a card key system is a violation of security. It means a locked door is unlocked and every resident is vulnerable," said Miss Ross. "I'm not interested in locking people in or out of their dorms. I'm interested in protecting the security of the whole," she said.

The new system will begin pending the arrival of the new equipment. Until that time the women's dorm hours are 12 p.m.

Sunday through Thursday and 2 a.m. Friday and Saturday.

New card key equipment has been purchased and will be installed soon, said Miss Ross:

Comments on last year's card key system varied and dorm residents generally requested that their names be withheld.

"I thought the system was a great idea. I could stay out later and not worry about getting back in the dorm," said one dorm resi-

A sophomore said, "I don't understand why they had to lock the main door. The girls could lock the doors of their rooms like the boys do."

A senior who had transferred from a Colorado college was shocked. "For one thing, it's a dehumanizing experience. When you get to college, your head should be together.

Many other girls had no real feeling about the card key system except that it was part of going to

TCU Offers **New Major**

Students from NDSU, Concordia College and Moorhead State College may obtain a humanities major starting this quarter under the Tri-College University Humanities Forum.

A \$400,000 grant from the

National Endowment for the Humanities announced earlier this year made the program possible in Tri-College area.

Dr. Albert Anderson, coordinating provost of the Tri-College University (TCU), said local facilities, released faculty members the tri-college system, administrative services and some local funds pushed the total value of the 3-year project to more than \$850,000. NEH indicated it would match up to \$100,000 in local funds and if the project were to succeed, it would extend funding to 5 years.

The Humanities Forum was scheduled to begin the first of two semesters early this month at Moorhead's Old Post Office, sharing headquarters with the Red River Art Center.

Fulltime studies for its initial 50 students will be led by three faculty members released from positions at the three participating schools and two professors emeriti selected from throughout the U.S.

1972 Homecoming Schedule Set by SAB

The tentative 1972 Homecoming schedule issued by the Student Activities Board (SAB) lists "Off and Running" as the theme for this year's homecoming celebrations set to kick off Tuesday, Oct. 10.

Wednesday, a convocation is scheduled, with an introductionof the queen candiates and honored alumni. A comedy performance by Pat Paulsen is set Wednesday night.

The student election of Miss NDSU '72 is set Thursday along with a barbecue on the mall in the afternoon. A pep rally and a coffee house are slated Thursday

The night before the Homecoming Game, Friday the 13th, is set as the date of the Homecoming dance and queen coronation.

Saturday, a parade and the big game are scheduled, with the Bison squaring off against the

Augustana Vikings Sioux Falls, S.

Wrapping up the five-day run of festivities is the scheduled appearance Saturday of the 'Carpernters' in concert at the New Fieldhouse.

Dick Danielson, SAB president, said the organization tried to offer a complete range of activities and wanted to show both sides of SAB.

The Homecoming Queen title was changed to Miss NDSU this year, Danielson said. The change was made after .Finance Commission cut SAB Homecoming Funds by 50 per cent and suggested SAB secure alternate funding, according to the SAB of-

SAB appealed the Finance Commission decision to Student Senate twice, the Senate overriding the Finance Commision decision, Danielson said.

The name change from the Homecoming Queen to Miss NDSU was designed to permit the position to become a year-round responsibility with a public relations function, Danielson said.

Rather than choosing the super-beauty on campus, Danielson said SAB hoped to combine beauty, personality, talent, and an active record to produce a symbol of the school that would add to the institution's prestige and public relations efforts.

Students Have Trouble With Dorm Phones

Students have reportedly been having trouble getting offcampus phone calls through their dorm phones, and also getting their phone to operate when trying to dial on-campus numbers.

For those experiencing difficulty, one member of the Centrics staff at the Weible Hall desk said. in order to call off-campus, the number "9" must be dialed and then the entire 7-digit number, such as 293-6666, can be dialed once the caller hears a dial tone.

Persons may dial on-campus numbers using only the last four digits. For example, if the number is listed as 237-7777, all the caller need dial is 7777, according to the centrics operators.



Call Erling Day or Night

Senate-

'We received stiff opposition from (Gary) Reinke, superintendent of buildings and grounds... I don't know why. I believe his main objections were from the liability standpoint," Bernier said.

Bernier guesses that Reinke feared someone might sue the university if the service accidentally burned out a person's starter. "But that's a bunch of hogwash...a statement signed by the customer ahead of time releasing the university from any damages would take care of that problem," Bernier

He said the Senate Committee formed to look into the program still exists and intends to pursue the idea.

Another campaign promise downfall cited by Bernier is in the area of surveys and polls. Although one poll helped change the format of the yearbook, Bernier said he felt more work needs to be done to find out what students are thinking.

The proposed university commuter center which would give off-campus students a place to relax has also stalled. "We received a friendly initial reaction to the idea but no action has taken place," Bernier said.

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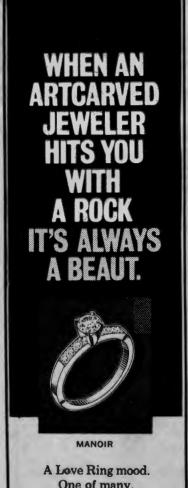
More extensive use of pass/fail courses and better traffic control for areas' involving SU students head the list of future programs which Bernier and Clower hope to implement during five remaining months in office.

"I'd like to see a longer time limit established for deciding whether a student is going to take a course pass/fail. As it stands now, three weeks isn't enough time to decide since most teachers don't give tests that soon. The time should be more in line with the regular six week drop rate," Bernier said.

Plans are also being made to check into the possiblity of having the Fargo Police Department patrol the campus. The Fargo Police could be called in to help because the university was annexed to the city "three or four years ago," he said.

"The campus provides its own security force but from reports I've heard it's very poor. A person can't keep a stereo tape deck or mags on his car without them being stolen," the student administra-

The possibility of additional traffic lights is also in the talk *tage. Proposed lights for University Village at 10th Street and 17th Avenue North and one at University and 13th Avenue North have been discussed with the Fargo City Commission, Bernier



One of many.

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"To those who have thought that the system was impenetrable, I say there's no longer a need to penetrate; that door is open."

-Richard Nixon

JOIN THE COLLEGE REPUBLICANS

First Meeting: Tonight, Sept. 12 at 7:30 p.m. Meinecke Lounge, Student Union



This is the second of a four part series by Lyle Whitcomb on the Metabolism and Radiation Research Laboratory on the SU campus. This issue The Spectrum reports on the insect reserach divisions at the lab. This Friday an article will describe the animal science division at the lab.

The mating habits of fe-males, long a source of curiosity for man, becomes of major scientific concern to the scientists at the Metabolism and Radiation Research Laboratory on the SU cam-

The females under study in this lab, however, are of the lepid-opteran order, which is to say, they are moths or butterflies.

Lepidopteran females are so important because they mate with lepidopteran males and provide the world with billions of little lepidopterans. Now little lepidopterans, like all babies, could be said to be cute. However, they eat enormous amounts of food, and they particularly like to eat far-mer's crops. Therefore, they are said to be pests.

In fact, the U.S. Department of Agriculture would like to find safer, more effective ways to kill not only lepidopterans but also all the other pests which eat plants raised by, and for, humans.

Numerous methods already have been developed. One method involves poisonous chemicals-pesticides. Another way is to use radiation (either X-rays or gamma rays) to sterilize adult pests. The newest development involves radiation and/or chemicals that interfere with the genetic make-up of the pests and hopefully make them unfit for their environment.

Of the methods developed so (insecticides, radiation and genetic control), the most commonly used has been insecticides. It was found, however, that if too many pesticides were dropped onto the environment they had the capability of causing homicides. This phenomena received national attention in the late 1950s and early 1960s when a large number of humans refused to eat cranber-They would not eat cranberries because it was alleged that pesticides used on the berries left dangerous residues.

The great cranberry scare prompted immediate public interest in the problem of pesticide resdues. Dr. R.C. Bushland, director of the metabolism lab at-SU, said agricultural scientists had been aware of ecological risks connected with pesticides as early as the 1940s. "We didn't have to wait or Rachel Carson to write 'Silent Spring' to be warned about residents," Bushland said.

He said the problem, alhough recognized early by scientists, was not officially worked on until the 60s because of trouble getting money for research. A large part of that problem was solved by the cranberry scare when the public became worried and Congress heard about it.

Wars have also played a part

Lab Probes Insect Life

both. At this point, scientists "an-

ticipate that chemical sterilization

will be far more effective than

treating with insecticides or even

sterilizing with radiation. Very

possibly they will ultimately use

two or more of these approaches

the genetics and radiation research

safe and novel approaches to in-

sect control by manipulation of

biological approach to controlling

pests-- the use of either chemicals

or radiation to sterilize insects. He

has been deeply involved in a pro-

gram whereby sterilized male

screwworm flies freed into the en-

vironment and, if they compete

well with the more virile male in-

sects native to the environment,

significantly reduce successful fe-

that breeds in the living tissue of

mammals, causing serious injury or death to livestock. "Screw-

worms! They're my first love-

The screwworm fly is a pest

Knowledge gained, through

"should suggest effective,

Bushland is a veteran of the

in an integrated control program,

the booklet said.

hereditary material.

male egg production.

here



This female house fly, with its head cut off, will stay alive for up to 10 hours and mate several times in succession, contrary to its normal sexual behavior. "This goes to show that frigidity is all in the mind," according to a scientist at the U.S. Metabolism and Radiation Research Laboratory on the SU campus.

in making money scarce for re-search. Research appropriations were hard to find during World War II, during the Korean War and now during the Vietnam War, according to Bushland.

The metabolism lab here, and its sister laboratories across the nation, were constructed in the grace period between the Korean War and Vietnam.

The SU lab has two research divisions studying insect control methods.

One division, the insect physiology and metabolism research team, places emphasis on investigating "the function of enzymes and hormones that control certain life processes specific to insects," according to an informational booklet distributed by the

"Some of these processes are: molting, or shedding of the exoskeleton, which allows the insect to grow; formation of the thin, waxy layer of the epicuticle, which protects the insect from death by desiccation (being dried out or baked); and diapause, a period during which activity and growth are suspended," the book-

The lab also investigates the effect of different insecticides and chemosterilants on the life functions of the insects. The research is designed to be of help in the development of more effective chemical methods.

Ideally, the scientists will be able to come up with information leading to a chemical agent which would work on the target pest, but would leave the rest of the environment and other insects alone.

The second research division studying insects at the lab is the insect genetics and radiation biology team. This group places emphasis on insect control through means other than insecticides.

'Scientists have already demonstrated that releasing sterile insects into the natural environment an effective and economical method of eradicating some insect pests," the lab booklet said.

Insect sterilization may be done by chemicals, radiation, or

they got me a job way back in the depression," Bushland told an depression," Bushland told an audience of visiting scientists this summer. In an attempt to eradicate

screwworms in Florida during the mid 60s, Bushland and his fellow scientists and technicians were dropping 60 million sterilized male flies per square mile of their research area. The "sterile male technique" was a huge success.

At the start of the experi-ment, in 1962, scientists found 50,000 screwworms at collection points in the research area. By 1965, only 500 screwworms were collected in the same area, Bush-

The problem seemed solved at that time, but the bugs keep coming back. In 1968 the screwpopulation mounted a counter offensive, but the situa-tion was corrected, Bushland said. More trouble, however, was

land said.

reported last summer when 25,500 of the pests were counted and the was expected to total 50,000 by the end of the year.

Meanwhile, "They (the government) won't let us hire any-

ceiling on employes in the USDA, according to Bushland. screwworms prompted scientists film, astounded this reporter. to try the method; with lepidop-

body" because there is a person-

ogy team at the lab.

The method did not work as well against the lepidopterans. LaChance said two problems were encountered in using the method with lepidopterans: 1) They required extremely high doses of radiation in comparison to flies, and 2) The sterilized males were not competitive with wild male lepidopterans in the field.

If the methods don't work in the field, "You are wasting your time," he said, and it was back to the proverbial drawing board.

The scientists discovered that the radiated moths were in fact copulating with females, but the females were left unsatisfied and, contrary to lepidopteran sexual habits, would mate with other males. This promiscuity was puzzling, LaChance said, because female moths ordinarily will mate with only one male per lifetime.

An examination of the radiated males indicated that they were not transfering sperm to the female. Thereafter followed a fas-The apparent success of the cinating inquiry into the problem, sterile male technique used against recorded in photographs and on

The scientists discovered, in terans, according to Dr. L.E. experiments with house flies, that LaChance, project leader of the a female, with her head cut off,

(more Lab on page 7)

insect genetics and radiation biol-

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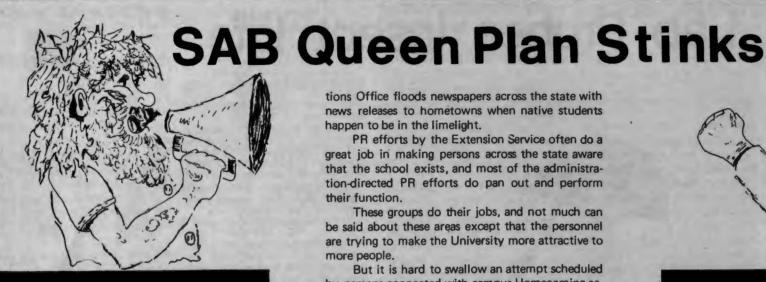
PINKY'S PIZZA

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South

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EDITORIAL

Public relations or PR, seems to be one of the most emphasized, though sometimes not most effective product of this University.

The High School Relations team tries each year to lure more freshmen to the school; the Athletic Department backed by the talent of the Sports Information Department offer many inducements to get those with perpetual suntans to come to a place with almost perpetual snow; and the Communica-

tions Office floods newspapers across the state with news releases to hometowns when native students happen to be in the limelight.

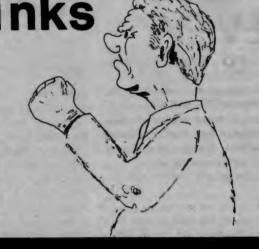
PR efforts by the Extension Service often do a great job in making persons across the state aware that the school exists, and most of the administration-directed PR efforts do pan out and perform their function.

These groups do their jobs, and not much can be said about these areas except that the personnel are trying to make the University more attractive to more people.

But it is hard to swallow an attempt scheduled by persons connected with campus Homecoming activities to place the Homecoming Queen, now termed Miss NDSU '72, on the market.

PR is fine, but why take the hapless winner of a campus beauty contest and parade her at functions for one year, in an apparent effort to get Student Senate to reinstate a slashed homecoming bud-

The University does their PR functions as part of the normal course of operation, but when did it become the function of SAB to turn into a supersalesman, other than the PR that is a spin-off of their normal activities?



EDITORIAL

The organization's spokesman said the group hoped to choose a presentable symbol of NDSU. Maybe she can be enshrined along side the American Bison, green and gold, and another hi-rise dorm.

SAB could even procure a buffalo and saddle so the new queen can ride in majesty when she addresses Girls State. They mustn't forget, however, to add someone with a bucket and shovel to collect the bull's droppings

Jackson-

present national priorities and what he feared was a possible loss of freedom of speech and press.

Jackson joined the McGovern campaign after being asked to coach a team of celebrities for the candidate in a post-season promotion. "I kind of believed in where they were at. I had to make a committment."

The 6-8 cager doesn't like campaigning. "I hate this. It's an intrusion. But how can you bitch about anything when you just sit around?"

In a lighter moment, Jackson said his total voter influence might total "two. It seems ridiculous to me why people should vote for McGovern just because I support him."

Jackson, a high school sensation in Williston, was an 22 countries. All-America selection at the Unijoining the Knicks. "I was an on the campus.

All-American boy, too," he said.

Asked if he had changed, Jackson said, "That's for damn sure. I'm not what you'd call a stereotyped athlete.'

Basketball to Jackson is not a job. "It's an enjoyment. However, it never lets you be a stable person. The only really meaningful things you can do through basketball are things secondary to basketball, like this (campaigning) and working in the ghettos."

Colonel Sanders To Speak at Concordia

Colonel Harland Sanders of Kentucky Fried Chicken is scheduled to speak at Concordia College Monday, Sept. 18, at 7 p.m. in the East Complex.

Sanders, 81, an Indiana native, started franchising his chicken business when he was 66, and now has nearly 4,000 franchises in

The chicken dealer is slated versity of North Dakota before to speak at a C-400 Club dinner

ad manager



CHILL IN U.S.-CHINA THAW

WASHINGTON-Warming Chinese - American relations, which weathered the bombing and mining of North Viet-nam's supply lines, are chilling

The interception of Chinese shipments, according CIA report, has soured U.S. relations with mainland China.

The report reveals that Chinese freighters are successfully unloading an astonishing amount of supplies at hidden anchorages up and down the North Vietnam coast.

The supplies are unloaded on small barges and boats, which smuggle the war booty to shore. The ingenious Chinese, we have learned, even use huge waterproof plastic bags to float supplies ashore.

To disrupt Hanoi's supply line, the U.S. Seventh Fleet has intercepted some Chinese shipping. But such action, according to the CIA, has only prompted the Chinese to renew their pledges of support of North Vietnam.

One strongly worded message of support reportedly was signed by Chairman Mao Tsetung himself. Such a rare message from Mao has the force of being engraved on the great wall of China.

The CIA report, furthermore, affirms our earlier report that heavy U.S. bombing has failed to halt the flow of supplies across the network of rail lines, roads and trails that lead into North Vietnam.

The CIA report claims more

than half of the war material, which used to be shipped to North Vietnam before bombing, is getting through. Even the Air Force, which has a vested interest in demonstrating its bombing raids are effective, acknowledges that more than a quarter of the former shipments are reaching North Vietnam.

-Nixon's '76 Strategy-White House aides tell us that President Nixon will not annoint Spiro Agnew as his

successor in 1976 if the President is re-elected this fall. The President, say our sources, wants a wide open Republican convention in 1976. With this in mind, the Presi-

dent intends to give national exposure to several presidential prospects, including New Yorks Gov. Nelson Rockefeller, ex-Treasury Secretary John Connally, cost-of-living czar Donald Rumsfeld and United Nations ambassador George Bush.

The President is not likely to embrace liberal Illinois Senator Chuck Percy. But even if a Percy bandwagon begins to pick up steam, the President is expected to remain above an election fight.

POW Preparations

The date remains uncertain when the 528 American prisoners of war in North Vietnam will return home. But the Nixon Administration has made sure it won't be caught unprepared when the prisoners are finally released.

A special government task "Operation Egress Recap" has already set up medical centers around the country to receive the POWs. Once they arrive, each will be assigned a special counselor who has been thoroughly briefed on the prisoner's background from his eating habits to his sex life.

The difficulty of readjust-ment is expected to vary widely. A team of doctors, who have made exhaustive studies of POW problems, have told the Pentagon that some POWs may be surprisingly healthy despite their ordeal. Others, say the doctors, will suffer from what is called the "concentration camp drome." The symptoms include fatigue, fits of depression, memory loss and temporary impotence.

The Defense Department has begun to brief families on what to expect when their imprisoned loved ones come home. Wives are warned to expect a tremendous emotional letdown a few weeks following the return. This will come once the wife realizes that her husband's presence does not solve all her problems.

At the medical centers, care will be taken not to force the prisoners to readjust to American life too quickly. Each prisoner will be allowed only a few phone calls, and his immediate family will be kept at a distance until the prisoner has been thoroughly examined.

Even after the prisoner is pronounced fit, the doctors will try to discourage a big homecoming. Studies show these affairs can be traumatic and impair the readjustment of an ex-prisoner.

-Political Potpourri-

George McGovern has received more lip service than campaign funds from the unions that have endorsed him. The labor committee, which is trying to raise money for McGovern, has collected only \$125,000 so far ... Security around the President is so tight that the Secret Service now routinely excludes all casually dressed, long-haired young people whenever the President makes an appearance in public. The Secret Service says it is purging the long-hairs to protect the President, but the action also insures that the President is free of the young protestors who dogged his campaign in 1968.

disclaimer

Opinions which may appear in Spectrum editorials and columns are those of the writers and do not necessarily represent the opinions of the student body or the administration of NDSU.

The all student staff is headed by persons in five salaried positions. They are: Doug Manbeck interim editor production manager Steve Justad Mel Stolzenburg business manager

Lyle Whitcomb managing editor Assignments are distributed among five news editors who are

also paid a salary. They are: political affairs Gary Wright student affairs Mary Wallace academic affairs Steve Schneider entertainment and arts Tom Sandvik Barry Trievel sports

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WHEAT FIELD REVIEW BY T.R. SANDVIK

Imagination, I would guess, is supposed to be the key word in Imagination 72. Yet from what I saw, imagination was pretty sparse Sunday. It was a walk-about look-at-the-people sort of entertainment.

Most of the people I talked to were disappointed. Little continuity was evident. A majority of the tents were reserved for presentation of lessons or lectures on various art media. The subjects selected were of good quality, yet little thought seemed to have been used in presenta-

Exhibitions geared to children in the audience seemed to be the exception to the rule, but all of them were set up for participation by the young ones and participate they did. This aspect of the festival helped make up for the inadequacy of the rest.

The children were introduced to the media of art, even when they didn't realize it. Even so, they were involved with art and the joys that it can bring. If they could bring this same involvement to the adult portion of the show it would be the most unique thing to happen to this town in years.

in the summer."

"Public Journal" by Richard Lyons, a collection of anti-war poetry from 1941 to 1971, was published by SU's Scopcraeft Press. Lyons is an associate professor of English.

Lyons said the collection resulted from selecting and combining his poems into various cate-

conditioning installations would be of the steam ab-

sorption type since "They have fewer moving parts,

save on electricity and utilize excess steam created

most of two walls of the building housing it are

glass. Stockman said glass was used because, "The

public can see it, it gives an incentive to personnel

Passersby can easily see the new boiler because

gories and collecting them into manuscript volumes for future publication. They "reflect various most often with an anti-war bias,

The collection includes "Garden of the (Dead) Gods," a poemabout North Dakota, with siloes for both food and missiles.

The 45-page collection of Lyons' work is available at the Varsity Mart for \$1.50.

public concerns and events, most often matters of war and peace,

to keep the place looking nice, and if you ever have to remove the unit, you don't have to tear the buil-

The building housing the boiler was built and the roof constructed before the boiler itself was installed. The boiler was rolled through the empty window spaces, Stockman said.

The administrator said the conversion would be complete as soon as testing procedures were fin-

HE FUTURE

Sept. 14: Dance at the Old Fieldhouse, featuring "NYLA" at

Sept. 19: TRINIDAD STEEL BAND on the Union Patio or, in case of rain, in the Old Fieldhouse.

Sept. 20-21: Film Festival all day in the Memorial Union.

Oct. 14, Homecoming: The Carpenters, Tickets will be \$3, \$4 and \$5. A special reduction of 50 cents will be given for anyone buying tickets next week. Tickets will be sold at the ticket booth in the Union.

-At Concordia-

Sept. 23: Peter Yarrow, from the folk group Peter, Paul and Mary, concert at 8 p.m. Tickets on sale at Daveau's, \$2, \$3 and

-At UND-

Sept. 28: Shawn Phillips, one of the finest solo guitar players around, will play in the Student Union. Tickets will be sold at the door, \$1.50. Showtime is 8 p.m.

Oct. 20: For Homecoming, Bill Wither, Steve Goodman and

Uncle Dirty. .

A dance, featuring Minneapolis folk singer Lonnie Knight and Medicine Hat, Gravel Road and Lonesome Creek, will be held Saturday 8-12 p.m. in the Old Fieldhouse. The dance is sponsored by

Keneth Hedgson, tenor vocalist, will present a faculty recital at 8:15 p.m. Friday, in the Recital Hall of Music at Concordia Col-

The program consists of plies to both songs from operas by Handel, Beethoven, Schubert and Finzi, Accordia faculty member Peter Nygaard, piano; Roberts Moore, Concordia Conservatory instructor, French horn; and Concordia sophomore Scott Newman, cello.

RECRDS

JEFFERSON AIRPLANE Long John Silver (Grunt Records) The Airplane, a longtime up in the air, seem to have crash-landed with their wheels up. Most of the songs on the album have a faint sound of some of their older works - rehashed and reheated.

After the various members went off to do things with other groups, such as Hot Tuna, they seem to be rusty and not accustomed to playing together. If you happen to be just a super Airplane freak, you'll probably enjoy it, but to quote The Rolling Stones, "It's great for a kitty litter box."

Ben Shahn's portfolio of the North Dakota McGovern beautiful and moving lithographs, Committee. Tickets are \$1.50 at on display this week through the 27th at Rourke Gallery, Shahn

chose a passage from The Notebooks of Malte Laurids Brigge. The passage that he selected apartist and poet:



"For the sake of a single verse, companying Hedgson will be Con- one must see many cities, men and things, one must know the animals, one must feel how the birds fly and know the gestures with which the little flowers open



The show consists of 24 original lithographs. Some are in color but the majority of the prints are black and white. The

average price per print is \$100 to \$150, with the complete portfolio \$1,500. The Rourke Gallery is located at 523 4th St. S., Moorhead. The show opened on Sunday. Hours are 12-5 p.m. Wednesday through Sunday and 7-9 p.m. Wednesday evening.

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efense Shines in Bison Victory

Defense carried the Bison to tough 14-7 victory over an exzellent Northern Arizona (NAU) eam Saturday at Flagstaff.

SU's offense was bottled up by the Lumberjack defense and, six of 27 completions. appropriately, it was the Herd deense that scored the deciding ouchdown.

Cornerback Lorren Henke nade the big play, intercepting a pass and flashing into the end one from 20 yards out to snap a 7-7 tie.

NAU did everything but outlacks had 305 yards total offense and 16 first downs while the Bion managed 269 yards and 12

Defensively, the Bison gave up quite a bit of yardage but came through with the big play when they had to and the secondary was credited with limiting NAU to

Bison quarterback Don Siverson completed six of 18 tosses for 111 yards, which is nothing to brag about either. Steve McMillan ran for 47 yards to lead Herd runners but NAU's Willie Perry captured game honors with a 68 yard

Neither team could venture core the Green and Gold. The deep into opposing territory until late in the first quarter when Sanford Qvale recovered an NAU fumble at the Bison 35.

Dan Smrekar swept left end

for 34 yards on the next play but the Arizonans stopped Siverson on a fourth-down play moments later.

Siverson again nearly led the Herd to a score after the defense forced a punt. The senior completed darts to Pete Lana, putting the ball on the NAU 13, but a second down pass was intercepted.

SU finally found the end zone with four seconds left in the half. Doug Linden returned a punt 29 yards to midfield, McMillan turned right end for nine yards and Rich Henry rambled to the 20 with a screen pass.

On third down, Lana was pushed and the subsequent pass interference penalty gave the Bison a first down at the four.

Time was running out, however, and the Herd had only one chance to score. Smrekar got the call and responded by bolting up the middle for the TD.

NAU tied the game quickly, taking the opening kickoff and driving 71 yards for a touchdown. Quarterback Bud Kane hit Walt Mannon with a 13 yard rollout pass for the score with 10:20 left in the third quarter.

Five minutes later, Henke skyjacked Kane's third down flare pass and zipped into paydirt for the shattering tie-breaker which proved to be the winning touch-

SU was ineffective on offense in the second half, getting only three first downs and did not move the ball over 22 yards in any one drive. Most observers attributed this to NAU's sticky defense,

Bowling Class Offered

A PE Bowling Class is being offered for girls. Anyone interested should see Miss Rare in the PE Department as soon as possible. The class starts-as soon as enough girls have signed up.

YOUR ROOM BECOMES A

After high school graduation, I looked forward to college because of a belief that I would finally have an escape route from the basic babysitting type of education.

I was looking forward to a personally disciplined education, freedom to skip class, freedom of total expression and freedom to dress as I chose and do what I wanted to do.

As a freshman, my visions immediately began to disintegrate. First of all came the registration procedure and secondly came my first joyous PE class.

went through that class in a daze, as do all freshmen during their initial classes -- nodding yes and no at appropriate times, laughing at the instructors' quips, sitting rigidly, not knowing what to expectment.

Looking back, I still remember one line which struck me at the time because of its communistic properites of regimentation: "You must wear the school's standard gym uniform for activity classes. They are issued at the Varsity Mart and no substitute will be accepted.

had brought three pair of standard white gym shorts, a gray sweat uniform and a drawer full of T-shirts, sweat socks and jocks to school with me for nothing? --Exactly, except for the socks and jocks.

I still can't figure out why almost every school from kindergarten on requires a standard uniform for physical education students. It's the students who get hit on the chin as a result of this idiotic

practice while the instructors or school boards responsible for the requirement maintain their dreamland state, thinking they're army generals leading their well-oiled troops into combat--a Hitler-type ego trip.

Admittedly, some requirements must be made on gym suit types for reasons of proper taste (with regard to flambouyancy and cleanli-

ness), safety factors and body motion factors.

There should naturally be rules against wearing a polka dotted hardhat into a basketball game, but do the requirements have to go as far as regimentation?

Granted, some cloth materials should not be allowed (velvet of mink, maybe) and the garments should be made in a relatively similar style. But, afterall, how many gym suits do you see available for exercise purposes that really do differ greatly from the standard SU uni-

believe any uniform which follows the suit pattern now required and doesn't differ in any obtrusive manner, except color, should be

Color should never be a reason for requiring the regimentation process. Boys can go skin-shirts when team competition is desired or a homemade color-coded vest can be required. The vest would cost the student no more than a few cents-take a piece of cloth, cut a hole in it for his head and tie the front and back together by an old shoestring placed through a hole. The hole could be punched out by a scissor's

point on the corner of each flap.

The Varsity Mart could even have exclusive sales on the cloth.
(Please VM, make sure it's a cheap rip-away fabric to prevent needless

student expense and also to prevent possible strangulation or whiplash injury.)

Better yet, since tuition was raised and PE (with a possible ROTC substitute) is an academically required course, shouldn't the school be able to afford to buy the cloth for class distribu-

It would be beyond belief to expect the school or the already burdened PE Department to buy color coded vests designed for the purpose. After all, the \$40 increase per quarter for out-of-staters won't even cover the increasing cost of toilet paper, will it?

Intramural Meeting Set

A campus intramural meeting has been set for 4:30 p.m. Thursday in the New Fieldhouse, according to Bill Barnes, director of campus intramurals.

Barnes said representatives for both men and women should attend, and that all football rosters are due Wednesday at 4 p.m. in the main office of the New Fieldhouse.

BASKETBALL PLAYERS:

Anyone interested in playing freshman or varsity basketball contact Coach Marv Skarr at the fieldhouse immediately.

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would stay alive for 10 hours and would mate several times in succession, contrary to its normal sexual behavior. "This goes to show that frigidity is all in the mind," quipped one of the scien-

During copulation male flies, it was found, "deposits something in the tail end (of the female) which affects the front end," LaChance said. That "something" which the male deposits in the female and which affects the front end is called the "frigidity chemical", It is called the frigidity chemical because it triggers a very complicated endocrine response" which coordinates the brain and sexual organs of the female and regulates sexual behavior, LaChance said. In this case, it tells the female if she has been properly mated and, if so, she becomes frigid, not allowing any more males to copulate withher.

Applying this information about house flies to lepidopterans, the scientists proceeded to investigate the copulation of moths.

Scientists cut off the head of female moth and established that with moths, just as with flies, frigidity is all in the head. They continued to dissect the female moth, while she was mating until all that remained was a drop of vaginal solution into which the male, who was beyond the point of no return, continued to copulate.

This accomplished, the scientists were able to observe, through the ingenious use of a microscope, the actual ejection of sperm by the male moth. Normal moths

would ejaculate into the solution, but the sterile, radiated males did not ejaculate until after withdrawing from the solution.

The experiment helped explain why radiated males were not competitive with normal males and why sperm transfer was necessary to successful copulation. The female's frigidity chemical could not go into effect unless her vaginal pouches were filled with sperm.

By ejaculating after withdrawal from the female, the radiated male was not filling those pouches and the female remained unsatisfied. By attaching a camera to the microscope in this experiment, the scientists have placed these observations on film, a film witnessed by this reporter this

summer.
The result of such experiments, according to LaChance, serves a dual function. It leads "not only to the discovery of new knowledge but also to the development of methods for controlling insects without using toxic chemicals," In this case, a detailed knowledge of insect reproductive processes was acquired.

Also, armed with their better understanding of those processes and with an explanation as to why the radiated male lepidopteran has not been competitive, the scientists have a basis to look for more effective method's of using the sterile male technique on lepidop-

LaChance said he believes that genetic control of insect pests will "eventually be the most widely used," although they are the most complicated. He said it will probably take the form of "chromosome engineering to create sterile strains of insects."

OUANDRY?

ARE YOU



UESTION:

WHAT IS QUAD?

NSWER:

Very simply, quad is 4 speakers delivering the sound rather than 2. There is more to quad than just 4 speakers. When you listen to music at a concert, the sound not only comes from in front of you, but it comes from over your head, from underneath you and from behind you as well. This is called ambience. Only quad can recreate this ambience and deliver a living realism to the music. Stereo is too directional to give you this "surround sound" effect.

UESTION: HOW DOES IT WORK?

NSWER:

Virtually all quad receivers have the ability to synthesize 4-channel sound from 2 channel sources as well as playback discrete (4 separate channel)

material.

Synthesis is accomplished by a system of electronics known as phase modulation, or phase shifting. This process enables 2 channel source material (records, tapes, FM stereo) to be played with concert hall sound realism.

A record is incoded with a special incoding process when it is manufactured. When it is played back on an ordinary stereo turntable or changer, the incoded signal goes into a special decoder which again separates the two channels into 4 channels. This provides you with the type of ambience which you hear with live music.

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UESTION: WHAT ABOUT THE STEREO/QUAD ADAPTER? **NSWER:**

The first qued adapters that came out on the market simply took the 2-channel output from the speaker leads and electronically "ping-ponged" them around to create something of a rear channel ambience. It is generally recognized throughout the industry that it is necessary to have 4 separate amplifiers to provide true 4-channel ambience. The "ping-ponged" adapter is perfectly satisfactory for a low priced quad system. However, it is incapable of reproducing true 4 channel sound.

UESTION:

IF I BUY QUAD GEAR NOW, WILL I HAVE TO **BUY MORE AMPS AND DECODERS LATER?**

NSWER:

No, you will not have to buy more amplifiers. Yes, you may have to buy a new decoder to decode CD-4. However, the important thing to remember is that any 4-channel gear that you buy now will not be obsoleted in the future.

UESTION:

WHAT ABOUT THE "DISCRETE" SYSTEM?

A discrete system has 4 singularly separate channels, instead of 2 channels matrixed to channels. Discrete sound is currently available on open reel and 8-track cartridges providing you have the correct playback tape deck. Discrete records (the CD-4 system) are also available, but selection is limited and quality is variable. Once perfected, CD-4 records will be capable of producing amazing sound effects.

It is important to remember that 4-channel or quad and will have many, many faces once it is fully developed. The synthesizing and matrixing part of quad will remain and to it will be added the CD-4 and other systems.

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reek Events Potential Pledge

By Linda Couch

Anyone for hopscotch? How about playing leap-frog?

So this was part of Rush, but only the beginning as enthusiasm adiated across the mall on Friday luring the gathering of rushees for heir orientation to the Greek ystem. Sorority girls and rushees roke into buzz groups, making ew friends, chatting and listening ntil the snacks were catered out or the picnic.

After a few nostalgic games f hopscotch and leap-frog, faces began to look more and more amiliar.

Rush week is a time of deciion for both the Greek houses and the rushees. It provides an opportunity for freshmen and transfer students to make beginning friendships that will last throughout college and beyond.

In the opinion of Kay Kelin, "It's a good way to meet more girls even if I don't pledge."

Some college coeds are inspired to investigate the Greek system by their sorority friends, parents or an inner curiosity. Expectations of Greek life differ. Freshmen dominate the cross section of rushees, anxious to experience the week of activity.

Loree Nedrebo, a sophomore, feels, "It will let me

get a little bit more out of college life.

"I've seen kids in sororities and they have a common friendship, sisterly effect," said P.J. Emerson.

Ellie Kilander, assistant dean of students, and Man Vuit, Panhellenic Rush Chairman, have been working to reduce the usual confusion of the hectic week of

Fraternity recruitment involves personally contacting of pledge candidates in the dorms

meeting to discuss courses on flying

An informational meeting for SU students interested in learning to fly was set for 4:30 this afternoon in the Engineering Center. Students interested in learning to fly are invited.

Sponsored by the Mechanical Engineering Department, the meeting will include discussion of two new courses which not only lead to a private operator's rating but also provide college credit.



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and inviting the prospective members to the houses for barbeques, keggers and shooting the bull. It is a time to familiarize the rushees with the activities and purpose of fraternities on campus, thus clearing up any distorted rumors floating about.

Keith Metzel, Farmhouse Rush Chairman, said the purpose her guys who have a lot of similarities, yet a lot of variety in order to get to know all kinds of peo-

Two big questions in the minds of frat rushees concern financial costs as compared to dorm living and the traditional Scum Week limitations.

classified ads

For Rent: 5 Street-6 Ave. No. Fargo church for rent. Exciting potentials. Retail business, art studio, little play house, musicians' hall, club house, crafts, offices as well as living quarters possible lower level. Combine uses. Contact Mrs. Shupienis 237-4587.

ATTENTION FACULTY 11/2 story Cape Cod-1/2 block off campus-3 bedrooms, formal dining room, rec. room in basement-new carpeting, 2 full baths-excellent condition. 232-2632.

For Rent: New 2 bedroom apt., furnished, carpeted. One bed-room occupied. Wish to rent rest of apt. to one (\$100/mo.) or two (\$120/mo.) persons, 7 blocks from campus. Off-street parking. 237-9798 after 5:00.

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For Sale: Good used winter clothing, including winter coat midi-length, sizes 14-16. Call 232-5613 after 5.

For Sale: Deluxe 1970 14'x70' mobile home. On campus. Take over payments. Call 237-4414

For Sale: Electric guitar and amplifier for sale. \$200. 293-6741.

For Sale: '68 VW Good condition. No dents. 235-6187 after 5

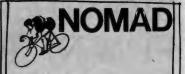
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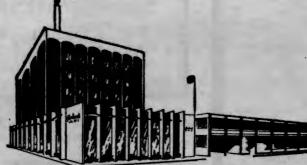
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