

## SU institute developing N.D. history programs for television

North Dakota, its people, events and history will be the subject of a series of 21 half-hour video-tape programs being planned by the North Dakota Institute for Historical Studies at State University.

Under a \$47,000 grant awarded last week by the North Dakota Committee on Humanities and Public Affairs, the institute will complete the series, "North Dakota: a Television History," by next September

for use by community service and social groups throughout the state.

Dr. Larry Peterson, assistant professor of history at SU and co-director of the project, indicates the series also would be appropriate for broadcast on public television. Each 30-minute program will be complete in itself and will cover a separate aspect of North Dakota history.

"We'll be looking at such things as what it meant to be in North Dakota during the

depression, life on the prairie, and the Dakota Indians and their influence on the people and the culture," Peterson said. "The series will focus on the North Dakota experience through people, their perceptions and interactions with others. We'll need suggestions and help from the general public."

Anyone interested in a specific era or subject or in putting together a program, or anyone who may have old photographs or historically significant objects, should contact Peterson by Feb. 1 at 237-8654 in Fargo.

While Peterson hopes the programs will be entertaining, he says they should also provoke discussion about North Dakota's past. They will be aimed at people with an interest in but not necessarily a good background in North Dakota history.

Peterson and his co-director, Stephen G. Sylvester, a graduate student in history from UND plan to use historical photographs, slides, film clips and art work to illustrate the diverse and exciting past of the state.

## Application deadlines set for SU health programs

Early deadlines for application for admission to the Associate Degree in Nursing and the Animal Health Technician Training programs have been announced for the fall quarter at SU.

The application deadline for students interested in enrolling in the nursing program is Friday, Feb. 15, and the application deadline for the animal health program is March 15. Both are two-year associate degree programs.

The Animal Health Technician Training Program includes a minimum of 400 hours work experience with a veterinarian. Upon successful completion of the program an associate Degree in Animal Health Technology is awarded.

An animal health technician serves as an assistant to a veterinarian or other scientist and must have many of the skills of a registered nurse and medical technician. Careers for well-trained technicians are available with universities, governmental

agencies, research laboratories, pharmaceutical companies, medical schools, veterinary schools and veterinary hospitals and clinics. The maximum number of students accepted in the SU program each year is 20.

The program is accredited by the American Veterinary Medical Association.

A graduate of the Associate Degree Nursing Program is eligible to write the state board examinations to become licensed as a registered nurse. The SU program also prepares the foundation for persons who desire to pursue a bachelor of science degree in nursing.

The SU Nursing Program is accredited by the National League for Nursing and approved by the North Dakota Board of Nursing. Approximately 80 students will be admitted to the program for fall quarter 1980.

All necessary forms can be obtained at the Office of Admission, Ceres Hall, NDSU, or by calling (701)237-8643

## Secretary seminar focus on nonverbal messages

A special one-day program, Seminar for Secretaries in Nonverbal Communication and Conflict Management, is scheduled from 1 to 5 p.m. Friday, Feb. 1, in Meinecke Lounge of the Union.

Co-sponsored by the SU Department of Business Administration and Economics, the Communication Department and the Small Business Administration, the seminar will be taught by Elayne J. Shapiro, a lecturer in communication at SU. Shapiro has completed course work for a Ph.D. in speech communication, with special emphasis in interpersonal communication, small-group interaction and organizational and health communication. The seminar will examine

nonverbal messages such as those transmitted by the body, face, physical appearance, timing, space and physical surroundings, and how each of the nonverbal aspects affect communication in the organizational setting.

The second part of the seminar will examine the causes of conflict, perceptual distortions which occur during conflict, communication skills useful in resolving conflict, and the advantages and disadvantages of various conflict styles.

For further information or preregistration contact the NDSU Division of Continuing Studies, Box 5595, State University Station, Fargo, N.D. 58105, or call 237-7015.



Even though the Bison basketball team lost Friday night, this youngster had plenty of school spirit. See page 9 for more on basketball. photo by Dale Cary

## Communications major has been approved by State Board

by Russ Legler

The State Board of Higher Education has approved a communications major for SU.

Dr. Neil Jacobsen, a member of SU's Academic Affairs Committee, made the announcement at the Faculty Senate meeting Monday.

The new major is designed strictly as a double major, which can be taken with any other major.

Lou Richardson, acting chairperson of the Department of Communications, said in an interview after the meeting that the major was originally intended to complement home economics and agriculture majors. She said the core courses within those two majors would fill the requirements of the double major.

"Students majoring in other areas may obtain the communications major but will be required to take additional courses in business, economics and math."

Richardson said the new major will, to avoid conflict with the journalism emphasis at UND and Moorhead State, emphasize public relations courses.

Earlier this school year, 59 students indicated an interest in obtaining the major.

Richardson expects about 10 to 15 persons per year to receive the double in communications during the next few years.

Jacobsen also announced at the meeting that the state board has given approval for two additional options under the horticulture major.

An option in parks deals with social recreation, and the other, arboriculture, is a landscape management option.

Dr. Edward Lana, chairman of the Horticulture Department, said after the meeting that the new options will broaden the opportunities for students in horticulture.

He said the need for more options became evident about five years ago. Since that time, there has been a constant increase in the number of

urban students and women in horticulture.

"We're trying to satisfy a more universal need," explained Lana.

He also sees this as being good news for Bottineau students.

"I think this will open up the interchangeability of courses, making it easier for students to transfer."

In other action, the Faculty Senate approved a resolution that would create a minor in religious studies.

Dr. John Helgeland, director of religion, said in an interview that student request prompted him to seek the minor.

The request will now go before committees of the state board. LCT

**The Last Day to Drop/Add Classes is 4:30 p.m. Monday, Feb. 4th**

# Clips

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### Science and Theology Forum

Dr. George Graf will present the subject "Entropy and Design in the Creative Process," at 12 noon Thursday, Jan. 24, at the University Lutheran Center.

### Dairy Showmen

There will be a dairy clipping demonstration at 9 p.m. Thursday, Jan. 24, at the Dairy Barn.

### IEEE

Fred Rose from ADAC Laboratories will speak on Signature Analysis at the Wednesday, Jan. 23 meeting of IEEE.

### Consumer Relations Board

The CRB will meet at 4:30 Tuesday, Jan 22, in Room 122 of the Family Living Center.

### Brown Bag Seminar

Dr. John Hegland, SU School of Religion Director, will present a seminar entitled "Symbols of Divine/Satanic Confrontation in the Eighties" at noon Wednesday, Jan. 23, in Meinecke Lounge.

### Dionysians

The first meeting is scheduled for 5 p.m. Thursday, Jan. 24, in the Askanase Annex Auditorium. The musical, "Gypsy," will be the topic.

### Business Club

The Tri-College Flying Club will meet at 8 p.m. Thursday, Jan. 24, in Crest Hall of the Union.

### Collegiate FFA

Tickets for the Annual Friends Night Banquet are on sale now in Morrill Hall in the Agriculture Education office. The banquet will be at 6:30 p.m. Thursday, Jan. 31, in the Union Ballroom.

### IRHC

The meeting is at 6:10 p.m. Wednesday, Jan. 23, in FLC 320.

### Basketball Pep Fest

Team leaders will be speaking at the Pep Fest 8:30 Thursday, Jan. 24, in the Memorial Lounge.

### Alpha Zeta

New officers will be nominated and Little I plans discussed at the 6:45 meeting tonight in the Horticulture building.

### Writing Lab

The writing lab, designed to help students with writing problems, is in the Math Tutoring Room, 210 Minard. A lab assistant will be at the lab from 10:30 a.m. to 2:30 p.m. on Mondays and Wednesdays, and from noon to 4 p.m. on Tuesdays and Thursdays.

### Communication Internships

Communication students interested in summer internships should submit their applications to Lou Richardson, Minard 105, by Thursday, Jan. 31. Application blanks can be picked up at Minard 105.

### College Democrats

There will be a meeting of the College Democrats Thursday, Jan. 24 in the Forum Room of the Union.

### Tri-College Flying Club

The monthly meeting for the Tri-College Flying Club will be held Thursday, Jan. 24, at 8 p.m. in Crest Hall.

### Libra

Libra will meet Wednesday, Jan. 23 at 6:00 p.m. in the Forum of the Union.

### Center for Women

The Center for Women, UCM building will continue the Wed. noon discussions on the book "Reinventing Womanhood."

### Attention Sailors!

SU Outdoor Adventure is sponsoring a film for sailing enthusiasts, on the Whitbread Round the World Race, "Leave Cape Horn to Port," 7:30 p.m. in Meinecke Lounge on Thursday Jan. 24.

### Candy Sale

Weible Hall residents are selling candy bars for a fundraiser, Wednesday Jan. 23. They will be sold in the Union from 10:30-3:30. Snickers and Plain and Peanut M&M's.

### Tuesday Evening Forum

Professor Lee Grugel of MSU and his honor students have just returned from the Middle East and will share their experiences. The Forum will be held at 7:30 p.m. Tuesday Jan. 22, in Meinecke Lounge. It is open to the public at no charge.

### Pre-Nursing Students

Pre-nursing students interested in gaining admission to the fall, 1980, nursing class are reminded that the supplemental nursing application must be filed with the admissions office by Feb. 15, 1980. Supplemental Nursing Applications are available at the Admissions Office, 124, Ceres Hall.



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# Children on stage prove to be enjoyable for 'Gypsy' cast

by Debbie Woitas

Mr. Weber: "Mme Rose, I told you this morning, I told you this afternoon, and I am telling you now: if there is anything I hate worse than kids, it's kids on stage."

Contrary to the theater manager's view, the adults involved in "Gypsy" enjoy working with kids.

"Gypsy," the Little Country Theatre's musical, opens Feb. 7 with a cast of 33. Nine of the cast members are children between the ages of 9 and 13 whom Don Larew selected from auditions.

The play spans many years. For this reason, one character may be portrayed by several actors of different ages.

"I love these kids. It's fun having a kid play my part," Kellie Corrick, sophomore, said. "We even call each other by our character's names."

Larew, designer and technical director, explained how he selected the young actors: "I watched the auditions for the FMCT 'Nutcracker' which involved about 80 kids. I wrote letters to a few inviting them to audition for 'Gypsy' and from these I selected nine."

Larew said his major concern was for the parents' time and ability to get the kids to rehearsals.

"Scheduling rehearsals around nine kids who have school, school activities, dancing lessons, and gymnastics is very difficult," Larew said.

It is important not to press the children too much so they lose interest, he said. "You have to consider their attention span. In this play most kids are done by the fifth scene and they rehearse a couple of times a week."

Dan Dammel, sophomore, hadn't much experience with the young actors on stage. He didn't want to hurt their feelings by what his cynical character, Uncle Jocko, said in the play. Generally, the children work by themselves but when they work together it takes more patience, he said.

"These kids are the best of the crop," said Sherri Dienstfrey, a graduate student who plays Rose, the main character.

"It's exciting being with older people," Doug Melroe, 13, said.

"It makes you think you're not a little kid—that you can do something worthwhile," said Matthew Fleming, 12. "I love to be on stage."

Several of the young actors said they wanted to become professional actors. Although Jill Olson, 12, said she would

prefer to become a singer, she likes to act, too.

Most children had some experience acting with the FMCT productions of "The Nutcracker" and "Free To Be You and Me." The Saturday Morning Live program, sponsored by FMCT, has helped many of the young actors, according to Larew.

In a musical, several talents need to be combined to bring out the quality of the production. Singing, speaking, acting and dancing all must be coordinated to make a successful show.

Most of the actors could not tap dance. Jim DeBrito, choreographer, "just showed us how," Jill said.

Christi Corrick, 12, said she was nervous about opening night, especially her friends seeing her perform.

One young actress, Heather Hammond, 12, said she wasn't nervous even though she'd never acted before. She looks forward to the costumes on opening night.

Doug would be nervous having his parents see him on stage. "But after the first

minute, I'm OK," he said. "It's a thrill being in a school play but this is so much better."

"The kids at school say 'Wow' and think it's rough," Matt said, "but it's really fun. I can't explain it to them."

Behind successful young actors you can usually find proud and devoted parents.

"I feel it's a parent's obligation to provide as many opportunities for their children to grow," Mrs. Sandra Fleming said. "I feel grateful to the people, like Don Larew, who can work with kids to put forth the effort and energy."

Matt said it wasn't hard to learn his lines for the musical because most of his lines are just what he would have said in everyday language.

Christi Corrick said she gets help from her sister, Kellie, when she learns her lines. Then she helps Kellie learn hers as well.

"It's a lot of hard work," Matt said, "but it's really a treat to be in a college play. You've got to give it your best—all ya got, make the audience happy, and give them their money's worth."

## KDSU-FM to air series on energy documentaries

A new, seven-part documentary series, "Energy and the Way We Live," will be broadcast at noon Wednesdays beginning Jan. 23 on KDSU-FM, Stereo 92.

The series will be narrated by Robert MacNeil, executive editor of public television's nightly news program the "MacNeil/Lehrer Report", and produced and written by Allen Hundley.

"Many alternatives have been proposed to solve our energy problems—solar power, nuclear power, renewable resources, 'syn-fuels' and increased conservation," Hundley said. "Each has advantages and disadvantages, advocates and opponents. In this series we have tried to provide our audience with a comprehensive picture of the energy situation."

Individual program titles include the following: "The Energy Crisis: Myths and Realities," "Kicking the Oil Habit," "Can the Saudi Arabia of Coal Dig Its Way Out of the Energy Crisis," "A Solar Powered America—Panacea or Daydream," "Gassing Up with Corn Licker," "The Politics of Energy," and "A Bicycle Built for Four?—Lifestyles in the Post-Petroleum Age."

Also on KDSU a two-part

program, "What Makes a Good Teacher?" will be broadcast at 11 a.m. Saturdays, Jan. 26 and Feb. 2, on the "Options in Education" series.

The programs will look at how the face of America's classrooms have changed during the past quarter century, according to John Merrow, producer and co-host of "Options in Education." Teachers today regularly face rooms full of students whose racial, cultural, economic, and even linguistic backgrounds are vastly different.

"The teachers, too, are different than they were 25 years ago," Merrow said. "No longer are they public 'servants.' Their rights are recognized in collectively bargained contracts. How do these factors influence how teachers teach and how students learn? These are the things we'll be looking at in this series."

"Options in Education" will also report on the current public mood which tends to blame teachers for everything from declining test scores to lack of discipline in the school, and favors the periodic testing of their competence.

Personal reminiscences of favorite teachers and their methods of teaching will be weighed against what formal research has found to be "effective teaching techniques."

The two-part program will feature close-ups of teachers designated by their students and/or peers as "good teachers."

"Options in Education" is a co-production of National Public Radio and the Institute for Educational Leadership of the George Washington University.

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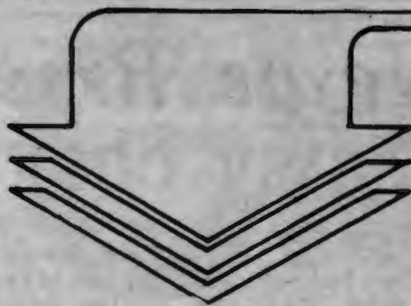
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# SPECTRUM EDITORIAL

The 1960s saw the growing pains of a new generation—a generation who rebelled against the strictures and stresses, who advocated personal freedom and acceptance, who cared about social issues and didn't care about personal gain and monetary wealth.

This generation spawned the hard rock, the open concerts, and the Hell's Angels; it also spawned a more open social life that shocked members of the "older generation."

It was during this generation's growing pains that Ralph Nader began his consumer protection work and Martin Luther King, Jr., began his peaceful demonstrations for minority's rights. Even the politicians began to recognize the "young people" as a strong, potential voting block during this time.

Members of that generation have now aged and some have even entered the system—some to earn a living, others to earn a living and to change the system.

The generation that began a social awareness has now carried it into the government and to the population. Programs have been started that help the down and out, aid the consumers in their fights with big businesses, and even help citizens fight city hall.

But this generation is coming to an end. And another one is starting to grow up.

This "new generation" is different—they seem to concentrate more on competing in this world for the best, for the most, and for the greatest security. But they aren't that different.

Although apathy has seeped into our population, this new generation has proved to have all the traits of the last one—but just a little duller, or should I say, mellow.

Personal freedom is still important among the young people of today, just as openness and acceptance is still important.

But, the acceptance is changing. This new generation still accepts each other as they are; however, the acceptance of extreme individuals by the social and working societies is changing—the uniformity of disco is one example. But never fear, disco and the uniformity demanded by it will never take completely over because of the diversity of this generation. There are some hippies, more cowpokes, and even more business people.

Some of the traditions of the last generation will be kept by this new one; but it will never be the same. The birth of the 60s generation will never be forgotten.



"I'm of the 'oh, well' generation."

Letters to the editor are encouraged. They must be submitted typed, double-spaced and cannot be more than two pages in length. Letters must be signed, but signatures will be withheld on request. The Spectrum, due to space limitations, reserves the right to edit letters for spelling, style and grammatical errors.

The Spectrum is published Tuesdays and Fridays during the school year except holidays, vacations and examination periods. Opinions expressed herein are not necessarily those of the university administration, faculty or student body.

News stories or features for publication must be typewritten, triple-spaced, with a 65-character line. Deadline for news stories is 5 p.m. two days before publication and deadline for features is 4 p.m. two days before publication. Ad deadline is at 5 p.m. the Friday or Tuesday before publication.

Editorial and business offices are located on the second floor, southside of the Memorial Union. The main office phone number is 237-8929; the business manager can be reached at 237-8994; the ad manager at 237-7407. The editor can be reached at 237-8629 and the editorial staff at 237-7414. The Spectrum is printed at Southeastern Printing in Casselton, North Dakota.

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# backspace

by Julie Holgate

It just kills me. Everywhere I go, they have these little stickers plastered on everything in sight.

You know what I mean—these athletes. Yes, I'm talking about those Olympians of the American persuasion.

Just because they spend years upon years practicing, in hopes of being selected to represent us in the world's most prestigious athletic event, they think they can brainwash American businesses and get away with it.

C'mon. Don't give me that. You've seen those Lipton ads—the official soup of the U.S. Olympic team." Or how about

the one for Levi's . . . "we keep the pants on the U.S. Olympic team."

It's like a disease. They have their own soft drink, cookie, cake mix, soda cracker, aspirin, pantyhose, lip gloss, eye drops, toilet paper, camera, calculator . . . you name it. Cripe—they'll never have time to use half that stuff! Well, maybe the t.p., but what do they need a special scotch tape for?

Everybody's in on this little game, too. Nothing is sacred . . . "Preparation H. The official preparation of the U.S. Olympic team."

What?  
Ah, I guess I shouldn't be

too hard on them. After all, where would this country be without guys like Bruce Jenner and Mark Spitz? We'd be chokin' up a lot less Wheaties, that's for sure.

Besides, those athletes are probably nervous enough anyway, what with the great J.C. threatening to boycott the Moscow games and all.

If . . . I mean WHEN the Americans go, though, they'd better be darn sure to take some precautionary measures.

Oh, boy. I can see it now . . . "this shotgun selected for use by the U.S. Olympic team . . . and Pres. Jimmy Carter . . ."

# News Briefs

## CARTER WANTS TO PROTECT PAKISTAN

President Carter says the United States is committed to help protect Pakistan, a nation that borders on Soviet-occupied Afghanistan. He added the protection involves "military action if necessary." Carter made the remark Sunday on the NBC broadcast of "Meet the Press." Fellow Democrat Edward Kennedy said on ABC's "Issues and Answers" that he's opposed to stationing U.S. troops in Pakistan at this time but is in favor of military and other aid.

## OLYMPIC COMMENTS

Republican presidential hopeful George Bush said on "Face the Nation" Sunday that he's in favor of cancelling U.S. participation in the Moscow games due to Soviet aggression.

President Carter favors non-participation by the U.S. team, and made two suggestions if the Soviets don't withdraw in a month: push to have the games moved, or cancel them completely.

Meanwhile, a wrestling team sponsored by the AAU arrived in Moscow Sunday, despite efforts by the State Department to keep them home. The wrestlers echoed the AAU's arguments that politics should not be mixed with sports.

The Soviet Union's national sports newspaper has denounced as "slandorous fabrication" any speculation that the Russians will boycott the Winter Games in Lake Placid. The paper also commented that any attempts to boycott the summer games in Moscow will fail.

## WALDHEIM HAS HOSTAGE SOLUTION

U.N. Secretary General Waldheim says he's worked out a formula with Iranian officials during his recent trip that he hopes will lead to release of American hostages.

Waldheim made those comments Sunday in India. Iranian militants holding the hostages claim that they know nothing of such a plan. A spokesman for the Iranians said "nothing would lead to a release of the hostages except the return of the Shah and his wealth."

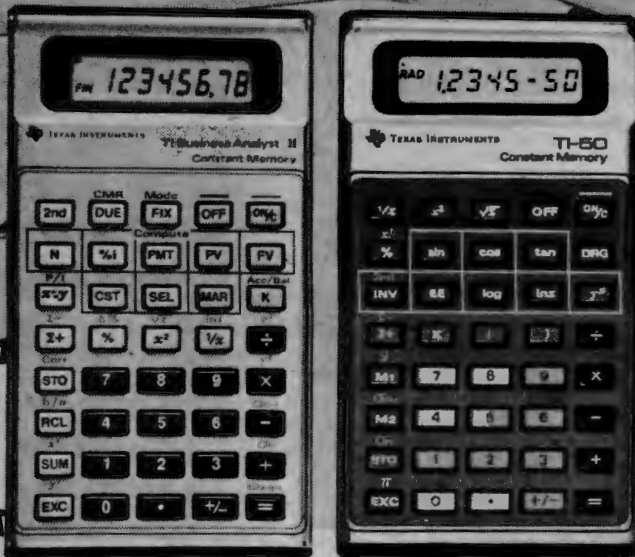
## Klenow obtains grant to conduct survey

Dr. Daniel J. Klenow, assistant professor of sociology/anthropology, has received a \$4,500 grant from the Traffic Safety Programs Division of the North Dakota State Highway Department to conduct a statewide survey of attitudes toward and use of child automobile restraint systems. The research is also sponsored by the North Dakota Department of Public Health and replicates and extends a similar study conducted by Klenow this past fall.

Sandy Reed will serve as project coordinator for the research.

Klenow and Reed also have received a \$1,700 grant from the North Dakota State Highway Department to conduct an educational workshop on techniques of data analysis and interpretation for state personnel in 13 state departments and divisions with traffic safety involvement. The South Dakota State Highway Department has also provided Klenow and Reed with a similar grant to conduct such an educational workshop for their state personnel in Pierre, S.D., in February.

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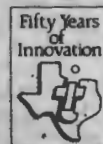
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## F-M theatre announced auditions for 'Anastasia'

Open auditions have been announced by Fargo-Moorhead Community Theatre for Guy Bolton's romantic drama "Anastasia." Auditions are Feb. 3 at 2 and Feb. 4 and 5 at 7:30 at the Emma K. Herbst house in Fargo. The script calls for men and women, ranging in age from 20 to 80 years. All interested persons are invited to try out. "Anastasia" is the intriguing drama about a young

girl who claims to be the Grand Duchess of Russia, daughter to Czar Nicholas II, who was believed to have been executed with the imperial family by the Bolsheviks.

Performance dates are March 20-23 and 27-30. Production director is Martin Jonason, FMCT Resident Director.

Additional details are available by telephone, 235-6778.

## Junior Jan Christenson holds new scoring record

by Jane Yseth

With five minutes 27 seconds remaining in the SDSU-SU cage battle, junior Jan Christensen cashed in on a 15 foot jumper to set the women's all-time NDSU careerscoring record.

Christensen, a 5'6" guard from Cando, now holds the scoring record with 700 points.

She surpasses previous record-holder Irene Blilie who tallied up 698 points in her two seasons of play with the Bison.



Jan Christensen



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## MSU theatre to present 'Shenandoah'

MSU Theatre has selected the prize-winning musical hit, "Shenandoah," written by James Lee Barrett with music and lyrics by Gary Geld and Peter Udell as its winter theatre offering for Fargo-Moorhead theatre goers.

Only recently released for non-professional production, "Shenandoah" will be receiving its regional premiere when it is presented on Feb. 7-10 in the Center for the Arts auditorium on the university campus. The first three performances are evening performances beginning at 8:15 p.m. and the final performance (February 10) is a matinee beginning at 2:15 p.m.

Based on a sixties film which starred James Stewart, "Shenandoah" recreates in musical form the tale of a proud Virginia farmer who refuses to send his sons to fight for either side in the Civil War. Eventually, the all-encompassing battle between the North and the South lashes his family with its fury, striking deeply at his pride. When marauding Union soldiers kidnap his youngest son, he sets out to find the lost boy, but is ultimately made to confront his own vision about war.


Dr. Delmar J. Hansen of the theatre department will serve as production director while Eddie Gasper, staff choreographer, will stage the musical sequences and choreograph the dance numbers. Thomas Ryan, staff designer for the MSU Theatre, will create the multiple Civil War settings and Amie Casey will serve as orchestra conductor. Bill Scharpen as vocal director and Roray Hedges as technical director complete the production staff for the winter musical play.



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## Women's basketball team downed by Jackrabbits

by Jane Yseth

The women cagers lost a 71-69 heartbreaker against the South Dakota State Jackrabbits Friday evening at SU's New Field House.

With only one minute 16 seconds remaining in the game, the Bison came from behind and SU's Laura Jacobson scored off a rebound, putting the Bison out in front 67-66.

However, 15 seconds later, the Jackrabbits tied it up to 67-67 after Mary Jo LeGrand made good on the front end of a one and one bonus situation.

LeGrand missed her second free toss, but SDSU's Nancy Joyce grabbed the rebound and scored again from the inside to give the Jackrabbits a 69-67 lead with 50 seconds remaining.

It looked like it was all over for the Bison after SDSU's Jeanie Rettig sunk two free throws, pulling the Jackrabbits ahead 71-67 with only 34 seconds remaining in the game.

However, SU's Lori Knetter scored quickly off a rebound from the inside and the Bison trailed only by two with 22 seconds remaining.

With the Bison behind 69-71 and only five seconds

until the final buzzer, SU's Shelley Oistad stole the ball. However, she couldn't get it down court in time to try for a tying bucket.

At the final buzzer SDSU was on top 71-69.

SU's Knetter turned in a 20 point performance and grabbed rebounding honors with 12 for one of her best games of the year. Jacobson and Jan Christensen were also in double figures with 16 and 10 points, respectively.

SDSU's Joyce turned in a top-notch performance leading all scorers with 21 points. She targeted eight of nine attempts from the field and tallied up five for five at the free throw line.

SU hit 40 percent from the field and 62 percent from the gift line. The Jackrabbits turned in 43 percent from the field and an impressive 79 percent from the charity stripe.

The Jackrabbits continue their cage dominance over the Bison having won all previous encounters against them.

The win boosts SDSU's season mark to 8-4. The Bison evened it up 7-7.

The Bison clash against the rivaled UND Sioux tonight at Grand Forks.

## Bison wrestlers top SDSU, lose to third ranked Augustana

by Murray Wolf

It was an up and down weekend for Bison wrestling fortunes as SU defeated one highly-ranked Division II school but lost to another. Friday saw third-ranked North Dakota State slip past the eighth-ranked South Dakota State Jackrabbits 24-21, but the Bison lost by a score of 21-17 to the third-ranked Augustana Vikings on Saturday.

The Bison rolled into Brookings Friday on the heels of a 48-0 crushing of Montana State last Wednesday night. After a forfeit to Guy Kimball in the 118 pound class and a third-period pin by Kent Ness in the 126 pound match, SU held a quick 12-0 lead, and it looked like it could be another easy victory.

But the Jackrabbits fought back with decisions over 134 pound Keith Burwick and 142 pound Bob Quiram to narrow the gap to 12-6.

Consecutive pins by Lynn Roesler in the 150 pound class and Gregg Stensgard at 158 gave the Bison grapplers a 24-6 lead. SU managed to hang on to that lead despite four straight losses in the up-

per weight classes for a 24-21 victory.

The win gave the Bison a formidable 4-0 dual meet record and a 1-0 record in the talent-laden North Central Conference. But things didn't go quite so well the following evening in Sioux Falls for Head Coach Arthur "Bucky" Maughan's talented team.

Things looked good at first as Guy Kimball took another step toward the record books with a first-period pin in the 118 pound match. The win gave Kimball a 5-0 dual record for the season and moved him to within 12 wins of the all-time top five in individual Bison wrestling victories.

A 5-5 draw in the 126 pound match left SU's Kent Ness with a 3-0-1 dual record and made the score 8-2 in favor of the Bison.

Keith Burwick suffered his second loss in as many nights, coming out on the short end of a 14-8 decision in the 134 pound division. That score, coupled with a 7-5 defeat of the Bison's Steve Martinson in the 142 pound match made the score SU 8, Augustana 8.

Lynn Roesler (5-0) and Gregg Stensgard (5-0) each

scored decisions in their matches to put the Bison back on top, 14-8.

But the vikings came back with three straight wins, including a pin of previously undefeated 177 pound C. Nagel, to jump into a 21-14 lead and the victory.

Heavyweight Steve Pfeiffer helped soften the blow of the loss with a 15-11 decision over last year's second place finisher in the NCAA Division II finals, Jeff Grier. But, was too little, too late and the loss dropped the Bison from the ranks of the undefeated and gave them a 1-1 record in the NCC.

SU faces a tough schedule this year in wrestling, taking on numerous nationally ranked teams. Last night's match against 14th-ranked Mankato State, the match tomorrow against arch-rival UND and Saturday's dual with Minnesota-Morris will be followed by matches against 11th-ranked Nebraska-Omaha and 10th-ranked Northern Michigan. Fortunately, five of these contests will be decided on the Bison's home mats in front of partisan crowds.

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# South Dakota slips past Bison while Augie falls

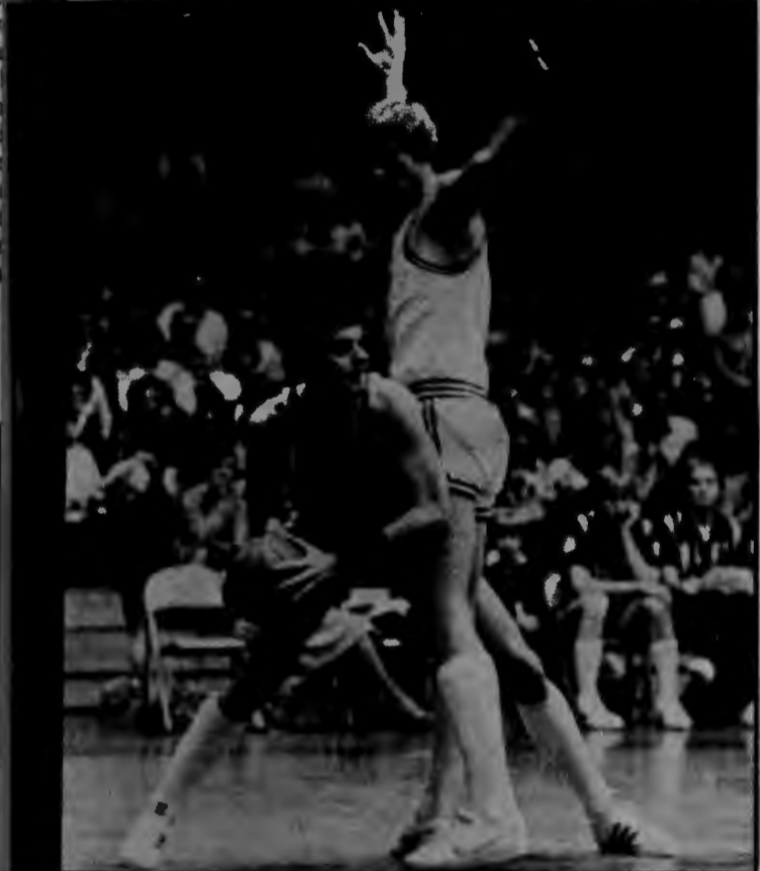
by D. C. Daly  
Friday

The highly-touted South Dakota State Jackrabbits hopped into Fargo Friday evening and dug out a slim victory over Head Coach Erv Inniger's Bison basketball squad. SU shot only 24 percent the floor in the first half SDSU's 62 percent. This domination was due to the sticky defense led by the intimidating 6-foot-9 Steve Lingenfelter, who blocked eight Bison shots during the contest, and to their powerful inside game which produced lay-ups seem- at will. SU shot only 24 percent the floor in the first half SDSU's 62 percent. The time score was 40-30 in of the Jackrabbits. In the second half, the charged at the Jacks

and tied them with 11:12 left in the game, with a Brady Lipp shot from the corner. SU center Greg Monson and guard Lipp fouled out within the next three minutes as SU continued to pressure the tiring Jackrabbits. SDSU's Lingenfelter, then Winzenburg, fouled out as the Bison charged to a five point lead, 71-66 at 4:12 left in the contest. But the tide turned as Ed Hinkel was handed his fourth foul and Jeff Askew fouled out. At 1:44, the boys from Brookings inched back into the lead, 75-73. After an SU time-out, the Jacks lived up to its namesake by driving down the court quickly. SDSU guard Paul McDonald set up, launched a bomb from the far right and swished the winning bucket with no time remaining. The crowd of 6,100



Jeff Askew streaks across the court to get around the Jackrabbit defense. photos by Gary Grinaker



Monson holds this Jackrabbit solidly in place as the Bison apply a full press during Friday night's game.

people was stunned. South Dakota State's blue-chip forward, Lingenfelter, finished with 22 points and 11 rebounds. The Jackrabbit center, Jim Walker scored 21 points and caught eight rebounds. From its guards, SDSU received 22 points—12 from Kevin McNamara and 10 from Paul McDonald. Monson was the top scorer and rebounder for the Bison with 16 points and 10 rebounds. Lipp and Askew scored 14 points apiece. Driscoll scored 12 points. SU shot 30 of 77 attempts from the field for 39 percent. The Jacks retorted with 30 scores in 54 attempts for 56 percent.

**Saturday Night**  
Steve Krier and company of Augustana College, after being blown off of the court by the Sioux on the previous night, come to Fargo Saturday to even the score with the state of North Dakota and nearly accomplished their goal in a 84-78 loss to the Bison. In the opening minutes of the game, the Bison running

offense worked to perfection while gaining a 35-18 lead. But unlike their game with the Sioux in Grand Forks, the Vikings here found weaknesses in our Bison defense while applying greater defensive pressure of their own and fought back to a mere 43-36 half-time deficit. In the second half, hot-shooting Krier, with shades of NBA and Providence guard Ernie DiGregorio, ran and popped in points as the Vikings tied the turned-lackluster Bison with 14:45 remaining on the clock, at 50-50. With 4:27 left in the contest, Augie was ahead 71-66. Then, the Bison offense began to perform again as Lipp and Askew combined to score the next 11 points in the contest. Blaine Hampton, who was seven of eight from the foul line that night, hit five on six free throws in the closing minutes to ward off the pressing Vikings last gasps. During the second half, Coach Inniger was given a technical foul for explaining a few of the finer points of the game to the officials. High-point man for the game was Viking guard Krier with 36 points.

The high rebounder for the contest was Viking forward Mark Smed with 12 rebounds. He also added 18 points. Augie center Brian Langeland grabbed nine rebounds and scored 16 points. SU showed more balance in its scoring led by Monson with 20 points, nine rebounds, and five blocked shots. Lipp added 18 points and Askew followed with 17 points and 10 assists. Driscoll scored 12 points. The Vikings won the rebounding contest, 46-38. SU won the marksmanship awards, shooting 46 percent to Augie's 45 percent in field goals and 80 percent to Augie's 78 percent in free throws. This win ended a three-game losing streak for the Bison who are still tied for second place in the conference along with UND and SDSU who also sport 4-2 NCC records. SU is just one win out of first place as league-leading Northern Colorado, 5-1 in the conference, was tripped by cellar-dweller Morningside College on Friday. SU is now 8-10 in overall competition.

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# SU installs 'fat tank' for adult exercise and fitness program

Hydrostatic or underwater weighing equipment, affectionately known as the "fat tank," has been acquired by the Department of Health, Physical Education and Recreation at SU. The first of its kind in North Dakota and one of the about 50 throughout the country, the fat tank will be used in an Adult Fitness Program open to men and women in the community.

Hydrostatic weighing is the newest and most accurate method of assessing the amount of body fat in a human, according to Bill Oddou, coordinator of the SU Exercise Physiology Laboratory. Oddou designed SU's fat tank from other models he has observed throughout the country. The tank was constructed during the holidays by the buildings and grounds personnel.

The tank, which is 6 feet deep and about 4 feet in diameter is located in the swimming pool area of the New Field House. A person climbs into the tank, sits in a specially designed chair suspended from a scale and is submerged beneath the surface of the water. The persons exhale as much air as possible from the lungs before the head is lowered underwater. The breath is held for about five seconds while the underwater weight is recorded. Ten to 12 repeated weighings are made to insure that a dependable underwater weight score is obtained.

Like a dream come true for the overweight person, the fatter you are the less you will weigh in the fat tank. As we all know, fat, which acts like a buoy, floats to the surface when submerged in water. The leaner the person is, the more dense the body weight will be, so the lean person will weigh more than the fat person when submerged in water.

Based on Archimede's principle, underwater weighing computes body volume as the difference between body weight measured in air and weight measured during water submission. In other words, body volume is equal to the loss of weight in water with the appropriate temperature correction for the water's density.

The old height-weight scales commonly used to assess obesity are outdated, Oddou said, because these tables usually classify individuals into three categories: overweight, normal weight, and underweight. "An overweight classification is generally used as confirmation of obesity. The fault in this method lies in the fact that the total body weight is made up of bone, water, muscle tissue, adipose (fat) tissue and several other tissues and organs.

"There are considerable individual differences with regard to the weight of these various body components. 'Overweight' does not necessarily correspond to ex-

cess storage of fat. This must be kept in mind when the diagnosis of obesity is based only on the height/weight principle," Oddou said.

Recently demonstrating the use of the fat tank was assistant wrestling coach Jeff Blatnick, who weighs 233 pounds and is 6 feet 2 1/2 inches tall. According to height/weight charts, Jeff would be overweight. In the fat tank, Jeff weighed only 12 pounds.

Using a mathematical formula, Oddou was able to assess Jeff's body fat at only 15 percent, which in Jeff's opinion, is ideal when he is wrestling. Oddou disagrees and advises Jeff to trim off 10 pounds.

While Oddou does not consider them healthy averages, the average body fat of males is estimated at 16 to 19 percent and females at 23 to 26 percent. Optimum fat percentages for athletes vary from 5 to 10 percent, depending on the type of sport.

"A male gymnast would be at a distinct disadvantage carrying more than 5 percent body fat, while a swimmer might have an advantage with a higher percentage. A body fat percentage under 5 percent for males and 10 percent for females would indicate undernourishment," Oddou said.

According to Oddou, the World Health Organization estimates that 40 to 50 percent of the American adult population is obese. The fat tank will be used in an SU Adult Exercise Program to study the relationship between body fatness and human performance.

"We will also investigate the causality obesity seems to exhibit in certain physical disorders along with the role that habitual physical activity plays in the maintenance of proper body weight and the individual's state of health," Oddou said.

Oddou believes people should be taking more responsibility for their health and expending a lot more effort in avoiding obesity, which is associated with several physical disorders. Among these are coronary heart disease, arteriosclerosis, high blood pressure and diabetes. "Obesity is accompanied by a shortened life expectancy and can therefore be considered a borderline state of health and, for some diseases, a full-fledged risk factor.

"We can't sit back and wait for illness to strike. Through a positive lifestyle, we have to prevent these things from

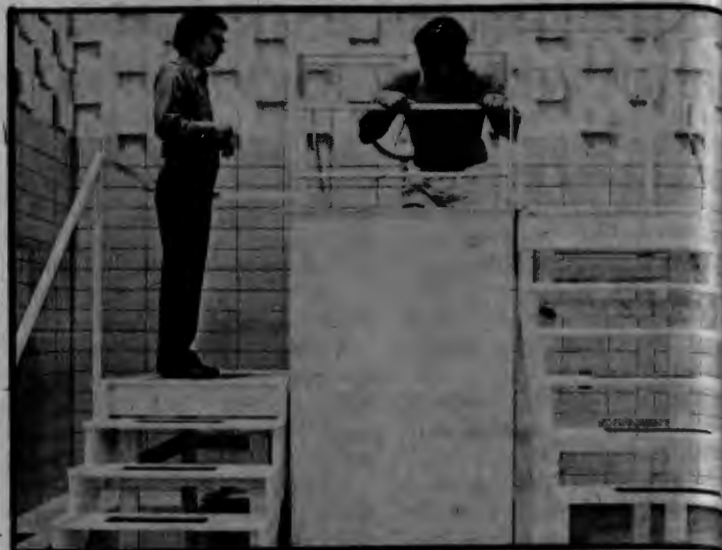
happening," said Oddou, who runs one hour daily. Oddou strongly advocates habitual daily exercise. "But first of all you have to enjoy what you're doing, otherwise you won't stick to it. It doesn't matter whether it's a game of handball or basketball or an hour of walking—as long as it's part of your daily regime."

A graduate of Ball State University, Muncie, Ind., with a B.S. in health education, Oddou has a master's degree in physiology from the University of Arizona. He spent over two years with the Peace Corps in the Fiji Islands and last year worked with the physical fitness program for adults at St. Cloud State University.

Persons enrolling in the Adult Fitness Program will be given exercise physiology examinations followed by a prescribed exercise plan.

The winter session begins at 7:00 a.m. Monday, Jan. 28, in Room 109 of the New Field House. Interested persons are asked to attend an informational meeting at 7:30 p.m. Thursday, Jan. 24, also in Room 109. The film, "Coping with Life on the Run" with Dr. George Sheehan will be shown at that time.

For Further information call Oddou (pronounced O do) at 237-7792.



New hydrostatic weighing equipment which has been nicknamed the "tank" has been installed at SU for use in an Adult Fitness Program.



Bill Oddou (left) checks the scale as Jeff Blatnick expels air from his lungs before submerging underwater in SU's "fat tank."

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# SU's gymnastic meet is cancelled due to conflicts

by Julie Holgate  
The Jan. 12 NDSU Invitational women's gymnastics meet, which had been postponed due to inclement weather, will not be scheduled. Early last week, Lani Hansen, women's sports information director, said there was a possibility the meet would be held at a later date

but that it would not be a complete invitational. However, because of scheduling problems, the meet was cancelled.

The time for the dual meet against Mankato State on Feb. 1 has been switched from 10 a.m. to 3 p.m. That meet will take place in the New Field House.

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SAE Rush- Thursday night tubing at dike with little sisters

Is there a religious aspect to the Iranian crisis? Bring your curiosity this Wednesday, Jan. 23 to the YMCA Brown Bag Seminar from noon to 1 p.m. In Meinecke Lounge of the Union. Dr. John Helgeland will clarify the observations that he has made regarding the religious element of the current conflict between Iran and the United States. Bring a sack lunch or purchase snacks in Meinecke from noon to 12:15.

SAE Rush- Tuesday thru Thursday for info call 232-3294 All Men Welcome

TAPE OF THE WEEK: What is your Alcohol IQ? TAPE has the answer. Dial 237-TAPE (8273) and request tape No. 1228. For a complete list of tapes stop at the Activities/Information Desk in the Union and pick up a brochure or check the tape listing in the Student Directory.

SAE- Theta Chi SHITKICKER featuring the Look following SU-UND B.B. Game January 25th

# Spirit booms this season with Pep Band and cheering fans

by Dennis Walsh

"This season there is no comparison in the student spirit to what it used to be," said Brady Lipp, a 6-2 junior on the Bison basketball team.

Lipp and his teammates have felt the change in basketball enthusiasm that has occurred in the past two years.

Basketball fans often become the most vocal and enthusiastic fans in all of sport. According to the Bison players and coaches fan enthusiasm pays off in the long run.

"The Pep Band and cheering fans on our home court are worth 10 points to us in

the games," Lipp said.

"The more noise there is the harder and faster the players play. They sense the crowd enthusiasm and soon the adrenalin is flowing in the entire team," said Bison coach Erv Inniger.

A crowd of 7,000 screaming basketball fans can have a tremendous effect on the concentration and overall play of both teams on the court.

"Whether the enthusiasm is for or against you it gets you real fired up. However it is always best to have the enthusiasm on your side," said Greg Monson, a 6-9 senior.

Coach Inniger's first objective in student support was to

get the students to the games. Now he is hoping that the large crowds that are coming will continue to grow in their cheering and vocal support.

One way to get the fans to cheer is to make them feel that they are personally close to the players and that the players are interested in more things than their own basketball games.

"One of the first things I wanted to do was encourage the players to be involved on the campus," said Inniger. "I realize that all groups on campus need support and there is no reason that we shouldn't be out there supporting other groups when they support us."

"I believe the basketball program can pull the campus together and make the campus better," he said. "The way the Pep Band, cheerleaders and students work together in good sportsmanship is a reflection of the entire institution."

The Bison coach hopes that the students feel comfortable in getting to know the ten men who spend a great deal of their time on the basketball court.

"In high school everybody knows everyone, but SU is so big that a lot of people don't know a thing about the players," Monson said. "I know that it is a lot easier to cheer for someone you know."

"We may not hear any particular voices but when we hear the roar of the students yelling together it really fires us up on the court," he said.

The surge in spirit has pleased the entire Bison team.

"We are all entertainers and we like playing before a huge home crowd," Lipp said. Spirit has increased drastically but Lipp warned that it can drop off as fast as it climbs.

"We don't look at the ten guys on the court as the team," said Lipp. "We feel that the Pep Band, the cheerleaders and the fans in the stands are all a part of the basketball program."

On Friday we will have the last in this series on the revival of student spirit for basketball at SU as the Bison machine prepares to unleash the "home court advantage" on the UND Sioux on Friday night.

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what you do. You say, "I make things complicated." (Pause.) "In fact, I got promoted recently for creating some major complications."

What you mean (but seldom explain) is this: the more active element groups (AEGs) you can put

on a single chip of silicon, the more the average AEG cost goes down.

In short, you make things cheaper by making them more complicated.

Your work made it possible for a TI consumer product that sold three years ago for about \$70 to sell today for \$14.95.

Your future looks wonderfully complicated. You're at about 100,000 AEGs per chip now and 1,000,000 is in sight.

You're glad you got into technology.



## Outsmarting Smog.

You've always designed airborne radars for TI customers.

Now, all of a sudden you know your next radar design is going to stay at the airport. On the ground.

It's on the ground that traffic controllers at Los Angeles International Airport have a problem. They can "see" incoming and outgoing airplanes on their radar just fine, so long as the airplanes are in the air.

But when the airplanes are on the ground—touching down, taking off, taxiing, parking—they are sometimes impossible to see and control. Ground smog obscures them.

You believe you have an answer to the smog problem. You dig out the plans for an airborne ground-mapping radar you helped design. You adapt the design so the L. A. controllers can use it to see through smog. It works beautifully.

Today your smog-piercing radar is widely known as Airport Surface

Detection Equipment (ASDE). It's standard equipment at L. A. International and at the airport in Geneva, Switzerland. Other airports with smog and snow problems are expected to have it soon.

You're glad you're in technology.



## Oil Sleuths International.

You're a geophysicist. A good one. You could be with any of the big oil companies. But

you wanted to get with a company whose specialty is the same as yours. Exploration.

That's why you're at TI, in Geophysical Service.

TI explorer ships, TI photo-geologic aircraft and TI truck- and tractor-mounted vibrator systems are working all over the world. They're finding oil. And they're identifying areas where no oil exists, thereby saving huge losses in drilling costs.

Also, TI's worldwide computer network and its Advanced Scientific Computer is making 3-D recording and processing possible. This exclusive exploration technique is the only practical way to unscramble "no-record" areas on land and sea.

You're a happy sleuth. You're in on the biggest hunt in history. And your team is out in front.

You're glad you got into technology.

If you're not in technology yet, think it over.  
If you are in technology, talk to Texas Instruments.

## Campus Interviews

Feb. 4, 6-7



Send for the 34-page picture story of TI people and places.

Write: George Berryman, Texas Instruments Corporate Staffing, P. O. Box 225474, M. S. 67, Dept. CG, Dallas, Texas 75265

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- Distributed computing systems
- Electronic data terminals
- Programmable control systems
- Data exchange systems
- Advanced Scientific Computers
- Digital seismic data acquisition systems
- Air traffic control radar and Discrete Address Beacon Systems
- Microwave landing systems
- Radar and infrared systems
- Guidance and controls for tactical missiles
- Worldwide geophysical services
- Clad metals for automotive trim, thermostats, and electrical contacts
- Interconnection products for electronic telephone switching systems
- Temperature-sensitive controls for automobiles and appliances
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