

SPECTRUM

Friday, May 21, 1982/Volume 98, Issue 54, Fargo, North Dakota *ndsu*

Plant fertilizers range from beer to potato chips

By Tammy Rowan

Beer, animal blood, coffee grounds, banana peelings and milk baths are only a few things many plant growers use to keep their plants happy and healthy.

Each of these unique plant-growing ideas probably originated from some plant grower's crazy experiments, said Tom Steele of Hotwell Floral Greenhouses and Garden Centers.

Steele said most of these substances won't help plants grow unless they contain some minerals.

Sue Weniger, an SU agricultural economics student, said putting banana peelings beside tomato plants increases the growth rate and makes the plant much healthier.

"The idea may sound a bit strange but the potassium in the banana peelings really does help the plant."

Instead of water, Cheril Anderson, SU agricultural economics student, said her mother uses old coffee to moisturize her plants.

The coffee-grown plants seem to grow rapidly, sporting a healthy green color.

Other techniques used on plants include giving them milk baths which makes the leaves clean and shiny.

Joan Sax, a home economics student, said her sister puts potato chips in the pot of her house plants. She thinks the potato chips are probably of no value except for a good laugh for everyone who sees them.

Some plant growers use beer to promote healthy plant growth. Ar-

Drunk greenery...



Does beer make plants grow? It really doesn't depend which brand you use. Plants aren't choosy.

Photo by Neal Lambert

thur Lamey, SU extension specialist, doubts whether the beer does anything for the plant.

"There is no particular reason why people use these everyday items on their plants, but they shouldn't harm either."

He suggests more practical techniques for plant growing like picking off diseased portions of the plant and adding commercial fertilizers.

For diseased plants fungicides may be used to keep the disease from spreading.

Dial for Plant Health is a program set up by Lamey that lists disease problems, ways of treatment, and means of prevention. A weekly telephone tape is available to anyone wanting to learn normal ways of growing healthy plants.

Dialing 237-8663 will enable plant growers to hear the tape night or day.

Finance commission releases yearly figures

By David Somdahl

SU President L.D. Loftsgard has approved the allocations of \$800,000 of student activity fee money for the 1982-83 academic year. Loftsgard signed budget allocations Monday.

The total amount of fees is \$60,000 higher than that awarded this year. This is due to a higher-than-expected enrollment and subsequently there are more student funds.

Men's and women's athletics were

awarded the largest share of the budget for a total of \$250,000.

Some \$90,000 is being allocated for debt retirement against the cost of construction of the Union and its subsequent expansions. Another \$44,300 was awarded for operating the Union.

A complete list of organizations and what funding each received has been released.

Your Dollars To Page 2

Textbook price is affected by instructor and edition

By David Somdahl

Before buying textbooks for next fall's classes, it might be wise to see if the same book will be used.

If an instructor decides to change texts, you may be out in the cold.

Dick Kasper, manager of the Varsity Mart, said instructors have the biggest role in determining the price of a text.

If used books can be purchased savings can be passed along to the student.

The time instructors place their orders also has a lot to do with the final price.

Kasper said instructors are requested to place their book orders in advance of the following academic quarter, to allow time for ordering and stocking of texts.

A survey conducted by Varsity Mart last year showed that fewer than 40 percent of instructors filed

orders by the date requested.

The extra time needed to process orders hurts the students, who may be unable to purchase their books.

Books prices aren't stable either. Kasper furnished one example with a photography book that is used at both SU and MSU.

"Photography" by Upton and Upton, second edition, was sold winter quarter for \$16.95. When it came time to order additional copies for spring, the price had risen to \$18.95.

Kasper said both SU and MSU bookstores use the same pricing policy for mark-up on the publisher's price.

When one store orders a text at different times from the other, the cost difference will show up on the shelf price.

Books To Page 6

Women's needs are considered in curriculum

By Jenae Bunyak

SU professors are looking at ways to incorporate women's contributions to society into the curriculum. This was the focus of a noon-hour brainstorming session of 12 SU faculty members last Thursday.

"The question was raised whether there are ways we can make some impact on campus in terms of curriculum equity," Dr. Mary Wallum, associate professor English, said.

"Curriculum equity deals with the issue of integrating information about women into the curriculum," according to Sandy Holbrook, SU's equal opportunity officer.

Textbooks using masculine pronouns or stereotyped sex roles are only the most miniscule example of inequity, she said.

"The bottom line is our whole society is male-dominated and we don't automatically examine the

But where are the wheels?



The "Spectrum" Bike Giveaway winner got one of our original typewriters instead. Diane Manthey, from Greenville, N.C. and presently from University Village, was the lucky winner of this old keepsake. More than 100 entries were received. For the story as to why the bike wasn't given away turn to Page 18.

Photo by Neal Lambert

Your Dollars

From Page 1

FINANCE COMMISSION SPRING BUDGET 1982-83

ORGANIZATION	Requested	Granted for next school year	Granted for this school year
Chess Club	\$ 132	\$ 85	—
African Students Union	1,312	512	—
Ag Econ Club	315	0	\$ 142
Ag Mech Club	456	79	270
Alumni Association	4,000	4,000	4,000
Amateur Radio Society	772	508	86
American Ins. Of Industrial Eng.	150	65	0
American Society of Ag. Eng.	426	201	381
American Society of Civil Eng.	1516	0	53
American Society of Mech. Eng.	515	37	54
Art Gallery	20,920	16,628	14,700
Assoc. of General Contractors	3,854	0	426
Assoc. of Computing Machinery	515	85	147
Assoc. of Veterinary Science	187	162	109
Men's Athletics	185,072	175,000	168,000
Women's Athletics	126,480	75,000	55,000
BOSP-Administration	14,941	14,671	13,448
BOSP-"Spectrum"	12,713	11,285	19,191
Bison Promenaders	405	372	397
Bowling Club	9,064	2,414	1,512
Campus Attractions	74,580	62,332	56,175
Campus Recreation	58,021	35,014	33,992
Cheerleaders	3,830	2,113	1,247
Child Development & Family Relations	300	0	—
Chinese Student Association	632	334	359
Collegiate FFA	1,103	363	417
Fine Art Series	29,170	24,794	19,967
Home Ec. Student Advisers	282	177	0
Home Ec. Student Council	690	227	230
Horticulture Science Club	373	0	—
India America Students Assoc.	405	80	—
Institute of Electronics, Electrical Eng.	775	154	145
Judging Club	6,229	6,229	5,785
Karate Club	3,826	753	653
KDSU	46,888	46,888	44,518
Lincoln Speech & Debate	27,283	17,406	14,970
Little Country Theater	42,214	35,881	30,392
Married Student Assoc.	185	0	—
Medical Technology-Bacteriology Club	300	105	47
Memorial Union-Debt	90,000	90,000	90,000
Memorial Union-Operations	46,300	44,300	40,250
Concert Choir	18,550	17,900	14,474
Concert Band	18,980	18,175	20,178
Marching Band	792	792	—
Stage Band	2,658	2,658	2,476
Native American Club	2,210	375	—
Pistol Club	3,094	863	679
Pre-Law	326	91	300
Pre-Med	135	122	—
Rifle Club	2,728	517	—
Rodeo Club	16,674	13,150	9,692
Rugby Club	612	112	—
Scholars Program	2,511	787	499
Skill Warehouse	13,951	12,043	10,078
Soccer Club	4,500	0	1,400
Society of Women Eng.	629	143	0
Student America Pharmaceutical Assoc.	1,320	576	214
Student Art Collection	7,950	750	1,550
Student Government	27,780	26,204	23,078
Summer Activities	2,835	2,635	—
TAPE	13,663	12,899	11,940
Wildlife Society	318	50	—
CONTINGENCY	—	20,904	26,596
TOTAL	\$959,347	\$800,000	\$740,000

Diploma day will take place May 29 for 1,600

(NB)—Degrees will be conferred upon nearly 1,600 students by President L.D. Loftsgard during the 88th annual Commencement ceremonies beginning at 9 a.m. Saturday, May 29, in the New Field House.

Lt. Col. Dale Conrardy, professor of aerospace studies, will preside over the swearing-in ceremonies for 19 graduating seniors who will be commissioned as second lieutenants in the Air Force and 14 to be commissioned as second lieutenants in the Army.

Anne Manlove, a senior from Park Rapids, Minn., majoring in home economics and speech, will represent the senior class.

The Gold Star Band will play under the direction of Orville Eidem.

Commencement marshal will be George Pratt. Dr. John Helgeland, chair of the religion department, will

give the invocation and benediction.

The Rev. James Bjorge of First Lutheran Church in Fargo will present the baccalaureate address at 4:30 p.m. Friday, May 28, in the New Field House. His topic will be "Trained for Freedom." Music will be provided by the SU Concert Choir and the Brass Ensemble.

Receiving honorary Doctor of Science Degrees will be Katherine Burgum, former dean of the College of Home Economics and president of the Development Foundation, and Robert W. Coon, M.D., vice president and dean of the Marshall University School of Medicine and Associated Health Professions in Huntington, W.Va. Dr. Coon also serves as consultant in Laboratory Medicine to the Surgeon General of the Navy in Washington, D.C. Both are graduates of SU.

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material taught to see if women are mentioned," Holbrook said.

Another issue is the perhaps unrecognized differences in behavior male and female professors have toward female students.

The group felt it's not just the male professor's behavior that changes toward female students, it's the female's behavior too.

"It's a good thing to get people thinking about it," said Dr. David Danbom, associate professor of history.

Lewis Lubka, associate professor of community and regional planning, said they have a "tough road to hoe."

The lack of attention given to female contributions in various fields is a problem the group discussed. Holbrook, a former English major, said every class she took focused on male authors.

Dr. Mary Bromel, professor of bacteriology, offered to prepare a talk on women in science. "There were some besides Madame Curie," she said.

Holbrook noted that Curie has often been discredited as immoral or unethical.

Janice Davis, instructor of communications, wondered if the problem was really gender.

"Isn't it more a matter that males were more successful?" she asked.

Holbrook disagreed. "That's what we've learned to value in society. That's the whole thrust of the issue."

Thus, both class content and professor behavior toward female students needs to be examined.

"It's a combination. You can teach (about women), but still devalue women students," Holbrook said.

Every field needs a code of ethics to deal with women and women's issues, Lubka said.

He cited the major problem as a shrinking general education. One or two women's studies courses are not

the entire solution. "If every course is integrated, students won't come out with the notion these (traditional male-dominated professions) are always men's worlds.

Danbom said at the 100-level, virtually all history classes have a strong composition of women's history. "But it's a matter of how much exposure you get."

The most likely place for integration seems to be in the areas of humanities, social sciences and hard sciences, Wallum said.

However, SU is doing a lot of trade-offs and a student can substitute an agricultural economics class for a humanities or social science and then they would not benefit from integration, Holbrook said.

"A great place to start is with the College of Agriculture," Danbom said.

"This (lack of women in agriculture) was the last emphasis of the Secretary of Agriculture's talk, but apparently it never got over here," he added.

Bromel, an adviser to female agriculture students, said female students ask her if they can transfer because they've been discouraged. Most often they're the better students, she said.

Sometimes the female student can't pinpoint the reason for quitting and Bromel said it may be a subtle thing like simply getting no encouragement. "Men think (that because) they don't cheerlead for the boys, why should they for the girls?" Holbrook said.

"Some dopey men think they can become engineers, but no, dopey women do-not even some of the bright ones think they can," Holbrook said.

Holbrook said the percentage of women students has declined in spite of increasing enrollments.

"This causes me uneasiness," she said.

Average enrollment last year was 7,992 students compared to 8,437 this year. This represents a 5.6 percent increase. Last year's average number of women students was 3,235 compared to 3,348 this year.

However, last year women comprised 40.5 percent of the total enrollment whereas this year they comprise only 39.7 percent. This shows a decrease of 0.8 percent, according to statistics provided by Wilkinson.

Economics may be a factor, Holbrook said. She fears the administration may not care if the number of female students declines as long as the enrollment goes up.

The answer to the problem

By Jenae Bunyak

Whether the educational system is to reform or maintain the status quo regarding curriculum equity is something which needs to be dealt with, according to Sandy Holbrook, SU's equal opportunity officer.

Two approaches to this problem are in terms of advisers and curriculum, said Julie Legler, lecturer in mathematics.

Integrating curriculum equity must begin with workshops for the faculty, Dr. Mary Bromel, professor of bacteriology, said.

"Brown bag seminars are good in terms of awareness so we can identify our own bias," Gloria Taffee, an SU counselor said.

Dr. Mary Wallum, associate professor of English, added the seminars are likely to "preach to the saved" and she wanted ideas to reach "the unsaved."

An answer seems to be through campus-wide adviser workshops where there will be a captive audience, Bromel said.

A problem is that once curriculum equity is labeled as a "women's issue" the response is "Oh, yeah, that again," Holbrook said.

Holbrook said she doesn't want to bring it to the faculty herself, but she wants them to initiate the action.

"I'm not proposing anything. I won't do it because it'll fall off the edge of the earth. They'll just say it's that kooky old woman in Old Main. I have lots of other stuff to do, but basically I'm an educator and want to get faculty members involved," she said.

Faculty members have to move beyond merely a couple of elective courses on women's studies which may reach only women, she said.

Any integration program must require the faculty potential and stu-

dent potential to be involved, Wallum said.

The program must build in continuation and development. It can't be a one-shot deal, she said. Large introductory courses would be a place to start.

"UND brought in a big name expert in the field to knock them (the faculty members) off their feet," Wallum said. "It put some clout behind it (the idea)."

"It's hard to get the faculty attuned to its behavior," Dr. David Danbom, associate professor of history, said.

The group decided research through the use of student questionnaires sent to female students would aid in identifying the problem to potential skeptics, Bromel said.

The Bush Foundation has granted SU a three-year Faculty Development grant, part of which could possibly be used to fund a curriculum equity program, Holbrook said.

An expert in this field, funded by the Bush Foundation, could then talk to the administrators, deans and faculty to make them more aware of the existing problems and possible solutions, she said.

With a consultants'hip, a faculty member could revamp courses and get assistance from that person. Any program will need to have wide impact and broad application.

The programs may have to differ in particular areas of study. In accounting, for example, the major goal is to teach people accounting.

"It seems to me if you're working with those faculty they must be made more sensitive to women in their classes rather than patronizing. Attention should be paid to the number of women in that profession, salary and the treatment of them," Danbom said.

A side effect however, may occur. "If home economics had a real push to get men (into its classes) would it make them (the classes) less attractive to women?" he asked.

Much will be left up to faculty members themselves.

Lubka asked whether the vice president of academic affairs could just tell the faculty to adopt a program.

"Only if he wants to be crucified," Holbrook said. "I can just hear the cries of 'academic freedom.'"

The easy way to have impact is to do the work and lower the resistance, said Pat Partin, associate professor of education.

"The more you do softens the issue and builds credibility," Holbrook added.

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EDITORIAL

I was planning on writing an editorial in favor of nuclear war to save the economy but I'm tired. Have a good summer. I'll write it for next year.

(I'm sure you're going to hold your breath...)

LETTERS

No. 1

The Ground Zero movement is overlooking a crucially important fact.

The edification of conscientious Americans and other westerners to the immorality of a potential nuclear genocide, either by conflict or accident, is certainly an important and valuable endeavor.

In addition, the cry for movement toward disarmament is being leveled not only at the United States but also at the Soviet Union and rightly so.

However, it is a mistaken and false assumption that the cries for moral sanity will effect both super-powers alike.

Soviet leaders, spoon-fed from infancy on the ideology of Marxism, do not share the same morality which we in our religiously-rooted Western culture share.

Atheistic Marxists feel no pang of conscience whatsoever over the literal millions of post-war executions in Cambodia, Vietnam, Afghanistan, Angola, let alone within the borders of Russia and China themselves.

Their peace-loving words contradict their deeds. The total deaths comes to a conservative figure of 143 million.

What argument can Western powers bring to the negotiating table when Soviet leaders do not believe, whatsoever, that it is immoral to kill by the millions if necessary to advance the so-called inevitability of worldwide communism?

The only way is to convince them of the existence of God and of the eternal value of man.

We must give ourselves time to accomplish this ultimate and long-range solution by maintaining the safety of and religious freedoms of

those peoples who still have them.

I look forward to the day when the West does not need a strong defense but that day is not yet come.

Donald Hentrich,
Unification Church

No. 2

The fraternities at SU have been taking a long, hard look at rush for fall '82.

The intrafraternity council has come up with some rather significant changes in the rush guidelines for this fall along with an attempt to contact as many incoming freshmen as possible.

The fall rush is centered on toned-down drinking with a heavy emphasis on selling what fraternities are really all about.

Letter To Page 5

SPECTRUM

The Spectrum is a student-run newspaper published Tuesdays and Fridays at Fargo, N.D., during the school year except holidays, vacations and examination periods.

Opinions expressed are not necessarily those of university administration, faculty or student body.

The Spectrum welcomes letters to the editor. Those intended for publication must be typewritten, double-spaced and no longer than two pages. We reserve the right to edit all letters.

Letters must be signed. Unsigned letters will not be published under any circumstances. With your letter, please include your SU affiliation and a telephone number at which you can be reached.

Spectrum editorial and business offices are located on the second floor, south side of the Memorial Union. The main office number is 237-8929. The editor can be reached at 237-8629; editorial staff, 237-7414; business manager, 237-8994, and advertising manager, 237-7407.

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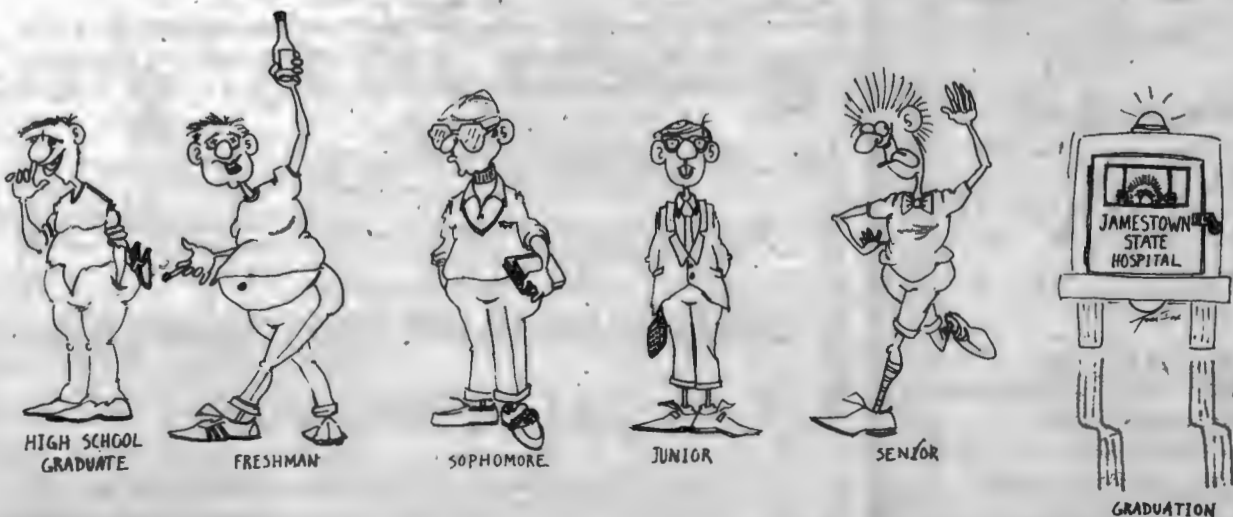
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EVOLUTION OF AN ENGINEER



Letter

From Page 4

It is felt this will present a clearer picture to the rushees about fraternity life.

In an attempt to de-emphasize parties and alcohol two days have been chosen when no alcohol will be served at the rush functions.

IFC has also been busy with the promotion of fall rush.

In June a pamphlet will be mailed to incoming freshmen as part of the school information packets.

At summer orientation the Greeks will make presentations as part of the orientation schedule and sponsor the dances.

This fall fraternities will hold a barbeque for all new male students on the first Sunday after school begins followed on Monday by a general-orientation night for all interested rushees.

On both nights campus vehicles will be available at the overflow motels for those who need rides.

It is hoped this effort by the fraternities will better present Greek life at SU and not an image that grows from wild uninformed imaginations.

Dennis Strander,
IFC rush chairman

No. 3

Unlike many of the letters you receive this is to compliment rather than complain.

I have spent the better part of four years here and this year was, far and above, the best year for campus events sponsored by Campus Attractions.

To scratch the surface I shall mention a few of the events that stick out in my mind as exceptional.

The G. Gordon Liddy lecture, whether you agree with his politics or not, was a feat worth special mention.

The films with the added treat of "Wings Over America" were excellent and of course the Loverboy-Quarterflash concert.

If all this was not enough we ended the year with the best Spring Blast in my recollection, characterized by high participation and a rebirth of the "High Flying Music Review" which I think was second to none.

As I said these are but a few of the events CA sponsored but a representative example of a job well done.

It may be said those employed at CA are paid to do a job and perhaps no special mention should be made.

I disagree as the pay for those employees is minimal with the productivity above and beyond the call of duty.

My compliments and my thanks.

I only speak for myself but I sure as hell got my seven bucks worth.

Steven Sando

Spectrum Opinion Poll

Does the ever-present threat of nuclear destruction affect your plans for your future? (marriage, having children, career choice, etc.)

Answers compiled by Bruce Bartholomew and photos by Mike Sweeney



"I really don't think my plans will change because I have faith in the people in charge and I believe we will not enter into a nuclear war. I'm not too worried about the future because what happens, happens."

Sue Berg,
computer science,
Starkweather, N.D.

"Not really. Sure, there is a threat of nuclear destruction but I feel it will never come to pass. If one side launches weapons it would surely mean destruction for both sides."



Tony Cloose,
mechanical engineering,
Gilbert, Minn.



"My plans for the future won't change because of the threat. I don't feel threatened by the nuclear arms of the world especially here in North Dakota. If anything drastic changes in the future, then my plans might change but for now they will be as planned."

Karen Mattice,
agronomy,
New Brighton, Minn.

"I try not to worry about it. If nuclear devastation is going to happen, then it's going to happen and there's not much I can do. I still plan on being a career woman and still plan on getting married sometime in the future. I'm not really worried."



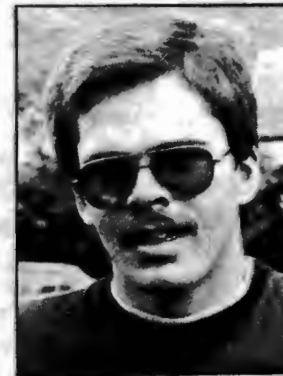
Pam Scheer,
university studies,
Fargo



"I've never really thought about it before but I don't think it would really happen. The only aspect that could possibly be bad is raising children in a nuclear-threatening environment that they don't know anything about."

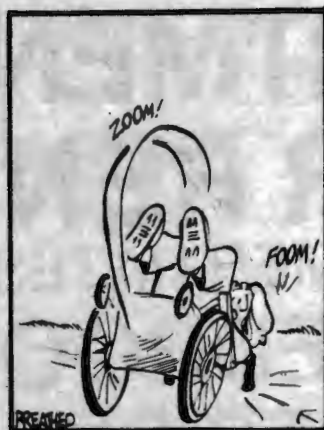
Kathy Beastrom,
fashion merchandising,
Hazelton, N.D.

"First of all, it makes me think about a trip to Canada and about the sanity of the world's leaders. There might not be too much of a future so I think I would tend to be a little more present minded and put off planning unless really necessary."



Tom Berg,
agricultural engineering,
Mazeppa, Minn.

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Books From Page 1

About 54 percent of the Varsity Mart's business is with textbooks Kasper said. Texts and other student merchandise take about half of the stores' 11,280 square feet of space.

That mixture of texts versus other items such as health and beauty aids is a good one, according to Kasper.

Some bookstores are as high as 75 percent to 80 percent on book sales.

Prices of books that both the Varsity Mart and the MSU Et Cetera shop stock do vary in some cases.

Several books priced by "The Spectrum" were the same at both places.

A mechanical engineering book, "Technical Drawing" by Giesecke, seventh edition, was \$23.95.

"Biology of Plants" by Raven, Evert and Curtis, third edition, sold for \$23.95 at both stores.

"Social Psychology" by Freidman, fourth edition, was priced at \$21.95.

The "Photography" text by Upton and Upton is now \$18.95 at both MSU and SU.

Several books were priced cheaper at the Et Cetera shop when compared with Varsity Mart.

"The Norton Anthology of American Literature" by Gottesman, second volume, is \$13.95 at MSU while \$15.95 new at the Varsity Mart and \$13.50 used.

"Calculus with Analytical Geometry" by Swokowski sold at MSU for \$32.45 and at SU for

\$32.50. A number of different texts from freshman and sophomore level courses were compared in this survey, but most often the two schools did not have common texts.

Another service both stores offer is that of convenience items and health and beauty aids.

Kasper said at the Varsity Mart health and beauty aids were stocked by other wholesalers who come in and keep the shelves stocked.

That allows the Varsity Mart staff to concentrate its efforts on textbooks and other necessities.

Prices of convenience goods vary quite a bit, depending on how many items are stocked, how fast they are sold and changes in wholesale prices.

This spring the N.D. Public Research Interest Group completed a survey of 20 personal care items at five locations close to the SU campus.

The five are the Varsity Mart, the General Store on 12th Avenue and University Drive, the Stop and Go store on 15th Avenue and 11th Street, the Buttrey-Osco store at 19th Avenue and University as well

as the K-Mart store at the same location.

Results of that study are shown elsewhere in table form. Generally, the K-Mart and Buttrey-Osco stores had the lowest overall prices for personal care items.

Kasper wants students to be aware that compared with other college stores, prices for Varsity Mart items are competitive.

He also said that any time students wish to look at purchase orders for textbooks they should stop in.

	Varsity Mart	Buttrey-Osco	General Store	K-Mart	Stop-N-Go
Crest toothpaste-6.4 oz	\$ 1.46	\$ 1.19	\$ 1.99	\$ 1.49	\$ -
Scope mouthwash-6 oz	1.69	1.47	1.63	-	-
Head & Shoulders-7 oz	2.14	1.79	-	1.67	2.47
Agree shampoo-8 oz	2.49	1.59	2.51	-	2.29
Sure, unscented roll-on-1.5 oz	1.83	1.63	2.22	1.57	2.29
Mennen Speed Stick-2.5 oz	1.61	2.19	2.10	1.29	2.08
Dry Idea, reg.-1.5	2.23	1.59	-	1.53	2.79
Right Guard-5 oz	2.58	1.95	3.29	1.64	3.23
Dristan-50 ct.	3.99	3.79	-	3.33	2.99
Sucrets, reg.-24 ct.	1.91	1.99	2.41	-	2.39
Tylenol-100 ct.	3.59	4.49	5.22	2.13	-
Johnson's baby oil-10 oz	3.19	2.29	3.50	-	-
Oxy Wash-4 oz	4.39	3.63	-	3.28	4.61
Noxzema-4 oz	1.99	1.73	2.49	-	2.09
Vaseline lotion-10 oz	2.69	1.49	-	1.63	2.69
No Doz-15 ct.	1.63	1.59	-	-	1.71
Blistex-14 oz	.89	.69	-	-	.93
One-A-Day vitamins-100 ct.	5.99	4.53	-	3.94	-
Dial bar soap-5 oz	.55	-	-	.64	.79
Tide laundry soap-20 oz	1.15	1.05	1.19	-	1.29

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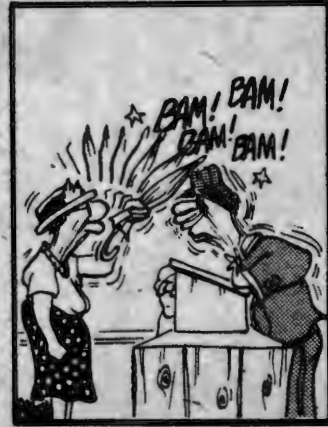
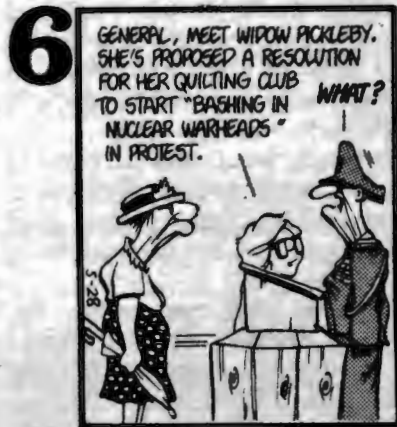
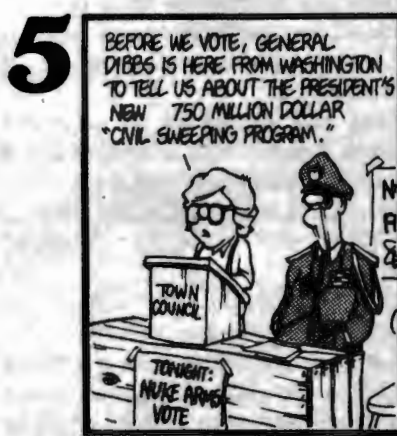
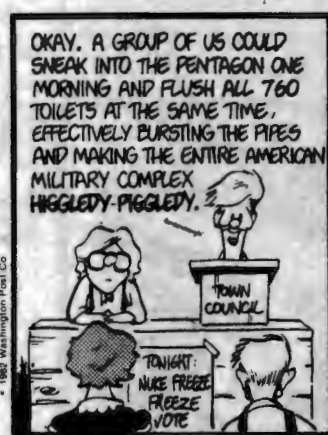
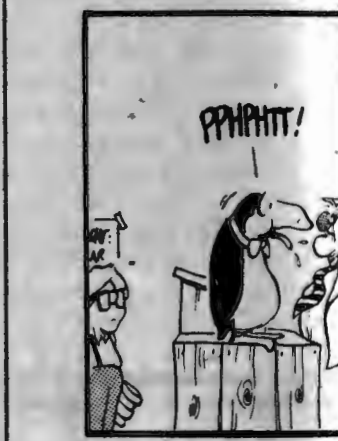
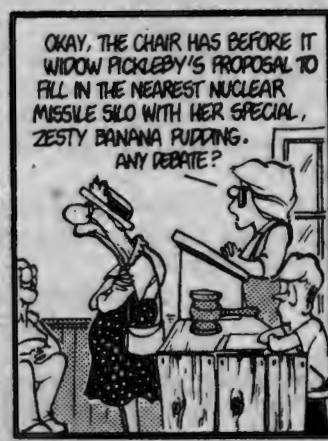
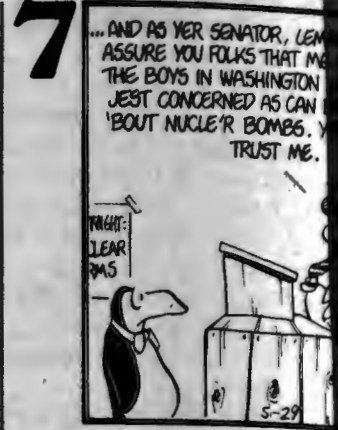
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Have a good summer!

See you next fall!



Soft Thunder All weekend.



Recipes are a cookin' in experimental kitchen

By Rebecca Hansen

Even if your meals in SU's dining centers aren't like mom makes, at least you can rest assured that efforts are being made to make the recipes as good as they can be.

A test kitchen located at West Dining Center "experiments with recipes and tests products," said Nancy Unruh, student manager at the test kitchen.

The test kitchen serves to standardize and control the quality and quantity of food servings at SU's dining center, Unruh said. "It's also a way of screening food products being considered by the purchasing agent."

Standardization of recipes includes determining portion sizes, serving utensils, recipe yield, and correct weights of ingredients so all recipes are made and served the same.

They also test products such as cream and whipped toppings for the dining center's purchasing agent.

"The goal is to get the best quality for the best price," Unruh said.

Food Service needed new recipes and there was no place to experiment. Each of the dining centers prepared recipes differently and the end products were different. The test kitchen was opened in September 1980 to solve these two problems.

A student manager and three student assistants staff the test kitchen.

Students are hired because Frank Bancroft, director of Auxiliary Enterprises, wants to help students gain experience and possibly give them background for future job possibilities, said Carol Pattison, a student assistant. It also helps students financially.

"It's been the best experience working with quantity and understanding food service systems," said Pattison. "You learn to work with people and it gives direction for your career or other job possibilities."

"Students hired have a background in food service, quantity preparation and good communication skills," Unruh said. "They're interested in improving the food at the dining centers."

"The food background gives the student knowledge and references to go to if problems arise," Pattison said.

"Because we are students, we know the feelings about the food in the dining centers. It actually results in more student input," Pattison said.

Since the test kitchen is student-operated, the employees have a lot of freedom, Pattison said. Ideas are pooled together and advice is accepted from the advisor, Ruth Krause, campus nutritionist.

"We have taken the initiative, and with few outlines, started out as nothing and worked up to what the test kitchen is," Pattison said.

Things are done differently from the home kitchen because of the

quantity of ingredients used. Cooks know how to prepare the recipes and they have valuable experience to fall back on.

"It's also important for them to take an interest in the test kitchen so they can understand what the test kitchen is doing," Pattison said.

Recipes are prepared and revisions are made through continual experimentation, Unruh said.

After a recipe is adapted to quantity, a test is conducted in a dining center for student evaluation. If the students don't eat it there's no reason to continue experiments.

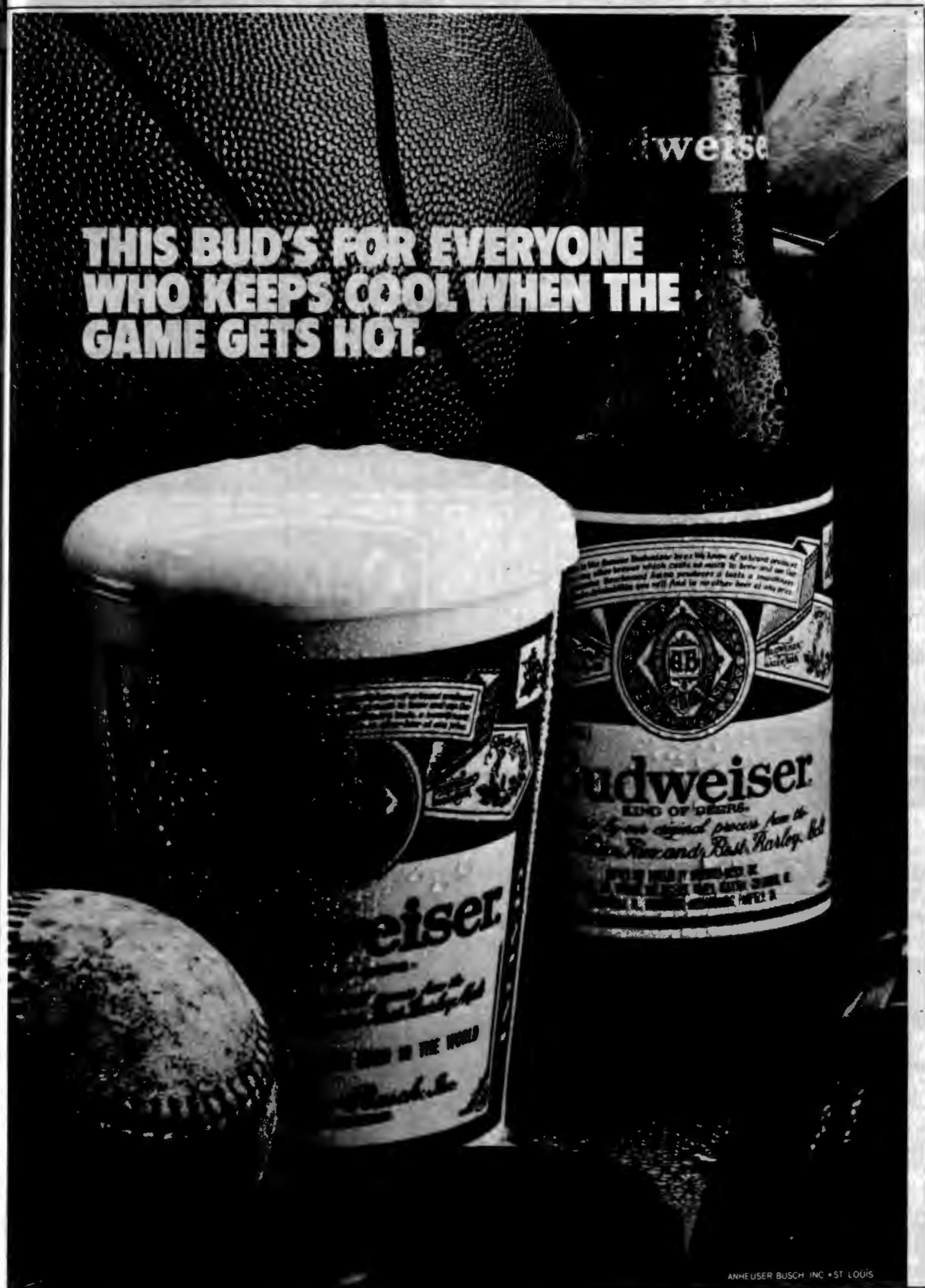
Recipes that have been developed from the test kitchen include Raisin Bran muffins, French onion soup, chicken quiche, pop-up pizza, creamed ham and mushrooms on an english muffin, cherry nut salad, and many of the breakfast campaign entrees.

Results of the test kitchen have made employees aware of standardization.

"It's been very effective in combination with computerizing the recipes. Attitudes of the employees reflect more awareness of portion control, weighing and serving," Unruh said.

"In the future, I see the test kitchen becoming a vital part of the food service," said Pattison.

"I hope it keeps expanding," Pattison said. "Things are new now, but I hope they become a system and work for the good of the food service. It's also a continuing education for future employees and possibly could be more beneficial because of the test kitchen's expansion."



The Washington Post Writers Group

Coming this fall

"The Spectrum" returns Friday, Sept. 14 for your reading pleasure.

We're planning to add another cartoon strip to the one we presently run, "Bloom County," and it will be another one we've had lots of requests for, "Doonsebury." Even "The Forum" doesn't offer these strips.

Also, "Dead Lines," that event we advertised for but never got around to doing, will finally happen. It's an open-house day at our offices. Now you can wander in and see exactly how it all gets to you, or how some stories don't.

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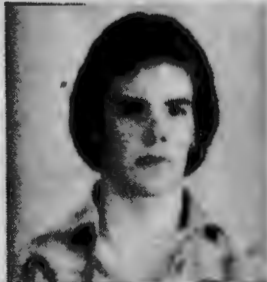
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Halley's comet will burst into sight during '86

By Carla Myhre

It won't be too long before sky-watchers of both professional and amateur status put an eye to their telescopes in hope of spotting one of the most famous celestial phenomena in history, Halley's comet.

The comet, named after Edmond Halley (rhymes with "valley"), returns every 75 to 78 years. It was last seen in 1910.

Astronomers have predicted it will make its next appearance in early 1985.

Dr. Franz Rathmann, retired SU chemistry professor, saw Halley's comet in 1910 and said he hopes to see it again in 1985.

"There is some question as to just exactly what a comet is," he said. Basically, it is a collection of dust, solid matter and a huge quantity of gas.

Comets also contain ice, which liquifies as the comet nears the sun and evaporates as vapor. The more often a comet approaches the sun, the faster it wastes away.

Most comets have tails, Rathmann noted, and some may have two or three, or even six tails. The tail develops as the comet approaches the sun and the icy materials in the comet evaporate.

The tail always points away from the sun, probably because of a pressure exerted by sunlight.

Therefore, he said, "when the comet is receding from the sun, the tail precedes the comet itself!"

A comet is very light in the amount of matter it contains as compared to a planet.

In fact, in 1910, the Earth actually passed through part of the tail of Halley's comet.

"There were many dire predictions about that, but nothing really happened," he recalled. "But we went through Halley's comet."

If our moon passes between the Earth and sun, we have a solar eclipse, and it would seem that the comet should have blotted out some of the light from the sun. But it did not.

"We couldn't see it; we could look right through it. If a comet passes in front of a star, we see the star shining through in full brightness. So a comet must be a very thin haze."

There is also some question as to where and how comets originate. Several theories exist, and they are as varied as theories of origin of the universe.

The planets in our solar system travel around the sun in elliptical rather than circular orbits, Rathmann said.

An ellipse is like a flattened circle, or oval. The planets travel in "very nearly circular" ellipses.

Comets, however, move in very long ellipses, and some have a

parabolic path, meaning they appear from somewhere out in space, circle our sun, and then head back out into space, never to return.

"The prettiest ones, the brightest ones are these," Rathmann said. "They come by once and never come again."

Halley's comet reappears every 75 years or so, varying from 75 to 78 years. (Over the centuries, the period seems to have shortened a bit.)

"Halley's comet was first observed by the Romans in 240 B.C.," he said. "There are references in literature that imply it was spotted 150 years earlier, although these references do not give accurate descriptions as to just when and where in the sky it was spotted, and so on, so it is hard to be sure this was the same comet."

"There are actual written records for most of the appearances since 240 B.C. The comet had no name, though, and they didn't know it was the same one making return appearances."

The advent of the telescope around 1610, thanks to Galileo, did much to further the study of the stars, Rathmann said.

In 1692, when a fairly bright comet was spotted, the telescope had been in use for some time.

"They didn't know the comet was coming, but after it was no longer visible to the naked eye, they could follow it for days, weeks or months with the telescope."

Halley checked back in the records and found that a comet with the same orbit had been spotted around 1607 about 76 years earlier. He wondered if this could have been the same comet. He gathered all the information he could on previous observations.

From the somewhat spotty data he obtained, a pattern emerged.

In 1758 the comet would show up again, Halley predicted, and when it did, though he didn't necessarily want it named after himself, he wanted it known that an Englishman had discovered it.

Halley died in 1742 and so never saw the return of the comet. "The general consensus was the Halley had discovered it, and so it should bear his name. This is now it came to be called Halley's comet," Rathmann explained.

"In ancient times, comets and meteor showers were seen as foretelling events," he said. "Even in very recent times, there are circumstances where some group of people interprets such phenomena as a sign of the end of the world."

"When Halley's comet appeared in 1456, it was interpreted by some as an appearance of the devil so Pope Calixtus excommunicated the comet."

"Half a dozen or more comets are discovered every year by avid comet hunters throughout the world," Rathmann said. "At present, scores of comets visible to the naked eye are known to have return periods of from 3.3 to 150 years. Many others are known only as telescopic objects."

There are however, certain peculiarities about Halley's comet that set it apart.

"Many other comets appear periodically, but probably none that astronomers and historians have

paid as much attention to as Halley's comet, and where we have records going as far back in history," Rathmann pointed out.

"Halley's comet was historically definitely known for a long time, although it was not known as the same comet each time."

It is the only long-period comet that has been observed more than two or three times, since it is only within the last 370 years that telescopes have been around.

Most long-period comets are faint and can only be seen telescopically.

"Also, this was the first application of Newton's laws of gravity to the orbit of a comet."

"This was the first time anyone predicted when a comet would appear again."

"With the exception of a very small number of comets, Halley's gets closer to the sun than almost any other comet."

Most comets never get closer to the sun than the Earth does, and so they can shine only as brightly as the Earth does.

"Halley's comet orbits in the wrong direction, opposite to all the planets and almost all other comets. The planets have a counterclockwise orbit around the sun. Halley's comet has a retrograde orbit; it goes the other way around. No other comet does this as markedly as Halley's does," Rathmann said.

"Halley's comet travels with a velocity of about 25 miles per second when nearest the sun. When farthest away, it travels at only three miles per second," Rathmann said.

When will Halley's comet appear again? Preliminary calculations mark Feb. 5, 1985, as the probable date of perihelion, that is, when Halley's comet will pass closest to the sun.

"But when it first becomes visible to us depends on a good telescope looking in the right direction," Rathmann said. "We'll probably begin observing it around the fall of 1985. But depending on the position of the Earth in orbit when the comet appears, we may even be able to see it seven months or so ahead of time."

Once it has been spotted, depending on the position of the Earth relative to the comet's orbit, we may continue to view it for several months.

"It will probably become highly visible to naked-eye observation for a few months early in 1986, disappear behind the sun, and then reappear for a few months in the summer of 1986."

There has been some speculation that Halley's comet was actually the Christmas star, the legendary star of Bethlehem. Rathmann does not give much credence to this idea, though.

In a Christmas show he coordinated for the MSU Planetarium about four years ago, he spoke a bit about this topic.

"The comet doesn't come in the right year," he explained. "The birth of Christ was not in the year 1 or 0, as many people think, but rather somewhere around 4 B.C. or 6 B.C. The comet, however, came around 11 B.C."


Meanwhile, if you own a telescope, keep it pointed toward the heavens. Who knows, you might have a comet named after you someday.



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NDSU STUDENTS:

It has been a pleasure for us to provide telephone service for you this year. We hope the service helped make the school year a successful one.

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If you had off-campus service that you want disconnected, please call us at (701)241-3130. If you want to order new off-campus service please come to our Phone Center Store at 22 N. 4th St., Fargo.

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CAMPUS CLIPS

Bison Promenaders

A spring picnic is at 3 p.m. tomorrow in Lindenwood Park. If you need a ride meet in front of the Union at 2:45 p.m.

University Lutheran Center

An outdoor service and picnic is at 10:30 a.m. Sunday in Oak Grove Park. Meet at ULC for rides. Everyone is invited to attend.

Mortar Board

A picnic is at 6 p.m. Sunday in Oak

Grove Park.

FCA

The Fellowship of Christian Athletes members from MSU, SU and the adult chapters are having a pig roast at 1:30 p.m. Sunday in Gooseberry Mound Park. Everyone is welcome with cost being \$3. Also, the last meeting will be talent-skit night and starts at 8:30 p.m. Sunday in Meinecke Lounge. If you plan on participating call Lundo at 241-2728.

Homecoming theme

A \$50 prize will be awarded to the person whose theme is chosen for 1982 homecoming contest. The only requirement is persons entering must be SU students. SU will be playing the USD Goyotes and the new Music Building will be dedicated that week. The deadline is 4:30 p.m. May 26. Turn the themes in to Jackie Ressler in 204 Old Main.

Fargo Volksmarch

Students are encouraged to par-

ticipate in Fargo Volksmarch which will be held in Lindenwood Park June 26 and 27. Brochures are available in the Union and more information can be received by calling Alice Underbakke at 236-9391.

African Students Union

ASU invites interested students and faculty to an international picnic June 5 at Detroit Lakes. For more information contact Sonnie Braih at 232-3862.

Pomp and college is theme of some seniors

By Michele Arth

The spring of 1982 will bring more than the prom and graduation to many high school seniors across the country.

Nearly 200 students in North Dakota alone will be attending college on a full-time basis along with completing required high school work.

This increase in enrollment is attributed to the change in Social Security laws made earlier this year, said Larry Bjorklund, associate director of admissions at SU.

The change requires recipients to be in full-time attendance at a college or university by May 1, 1982, or have their benefits stopped.

This is just one phase of a major cutback in Social Security payments. Benefits for all college students will be cut by 25 percent each year until they are totally phased out.

The months in which payments will be made have also changed from year round to September through April.

Although these cutbacks have made funds for college tight with some students, Bjorklund feels few will be unable to attend college because of it.

"Social Security wasn't initially set up to put people through college. Students in need can apply for financial aid through the college," Bjorklund said.

Most of the early entrants in North Dakota have chosen to attend SU, said Bjorklund. Fifty-one have matriculated here followed closely in number by Dickinson and Minot State Colleges.

"It was very hard for these students to leave high school and enter college," Bjorklund commented.

Many students hadn't decided which course of study to follow and were caught off guard. The adjustment has been easier for some than others, just like with any other freshman group.

The Early Entry program has been in effect at SU for several years, said Bjorklund. It's usually been utilized by area students who have completed high school study in a given area and wanted to continue in their work and gain college credit. Not all the former students have been seniors either.

Bjorklund said an average of 10 to 15 students enroll in one or two college courses during the summer but never has there been an enrollment on a large scale.

Denise Arth, a pre-nursing stu-

dent from Gwinner, N.D., is one of these early entrants. Along with carrying a full college load, Arth is also completing two high school courses through independent study for graduation in May.

She finds college life more appealing than that of high school.

"There are more things to do here than in high school."

Arth has already taken classes through skills warehouse as well as enjoying other campus facilities such as the library and the pool.

Although particularly active in high school, Arth said she doesn't miss it very much.

She and fellow early entrant from Gwinner, John Zetocha, have been

invited back for most of the spring activities, including graduation, making the adjustment easier.

Graduation is set for May 21 in Gwinner which is the week before finals here.

"Friends back in Gwinner treat me differently now," Arth commented.

People who usually never said much before are interested in how she's doing and what it's like to be in college.

She also found students on campus treat her differently once they find out she's "one of those."

"It was like they didn't take me seriously once they found out I was still in high school."

Feelings about these students on campus are mixed.

Ramona Langmaack, a first year medical sociology student, thinks it's unfair for them to be forced to give up part of their senior year.

"A guy in one of my classes is an early entrant and if he wouldn't have mentioned it, I never would have known," Langmaack commented.

Julie Wold, a first year pharmacy student and Ginger Fischer, a first year construction engineering student, feel these students have a right to be here but being in college during spring quarter of their senior year takes away from the high school experience.



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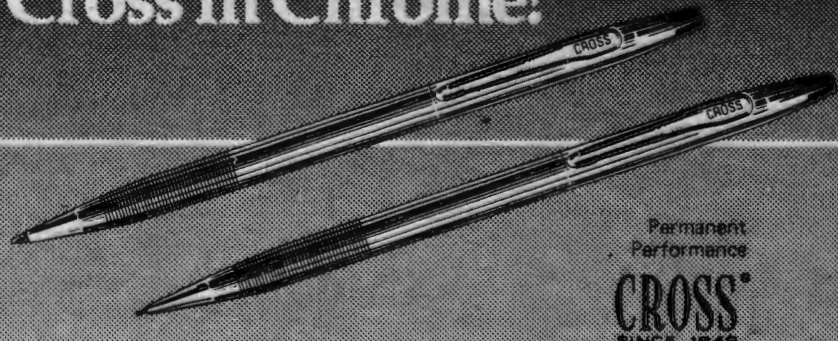
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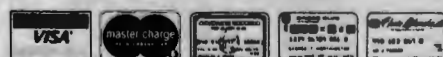
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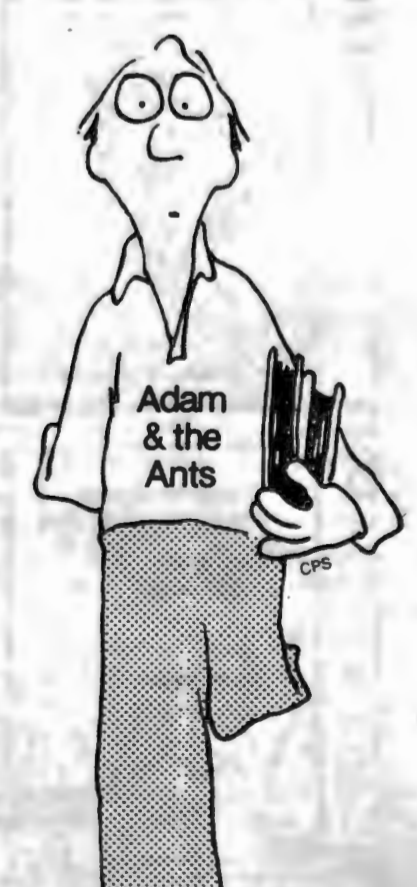
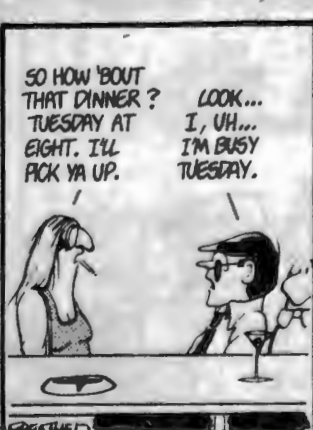
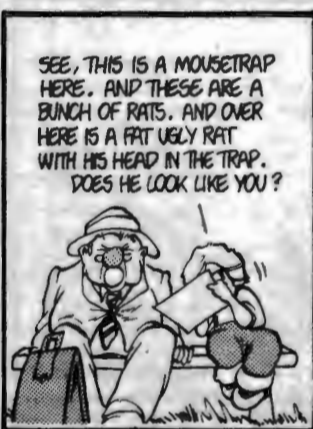
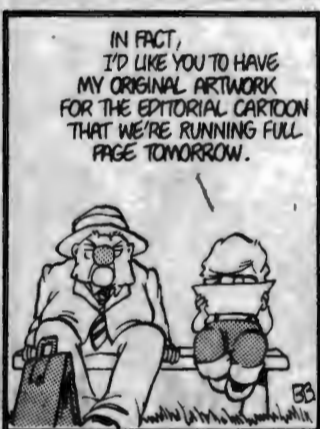
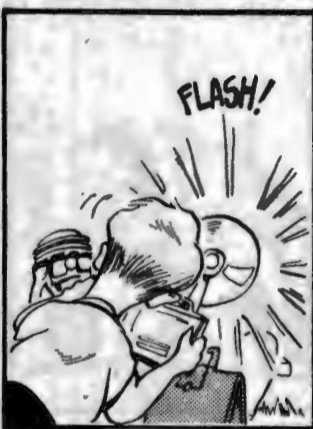
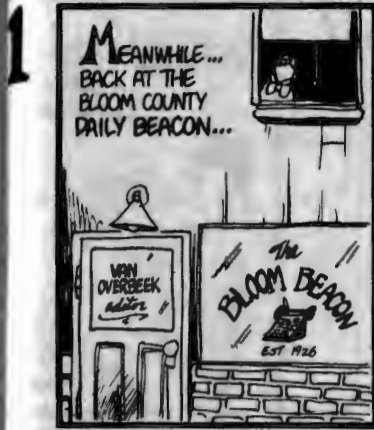
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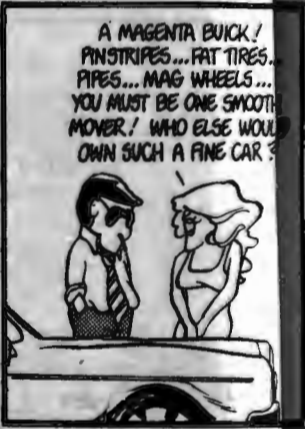
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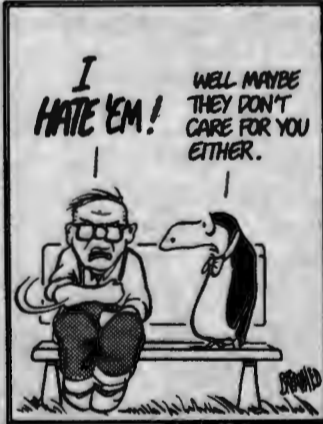
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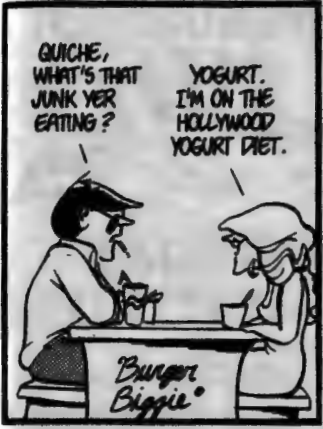
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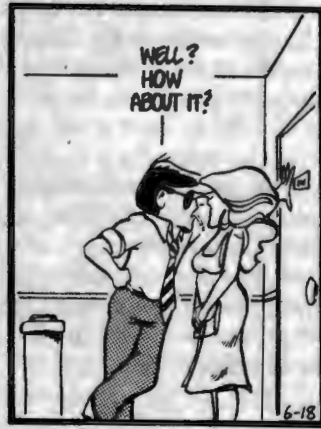
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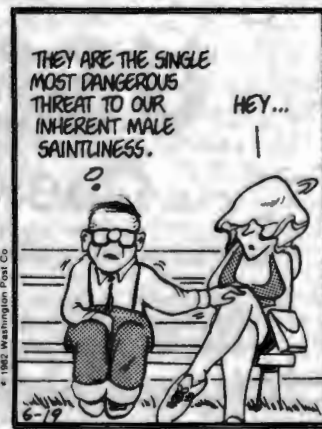
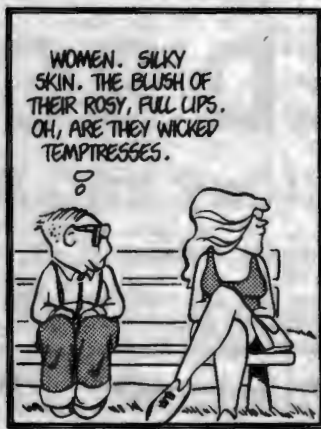
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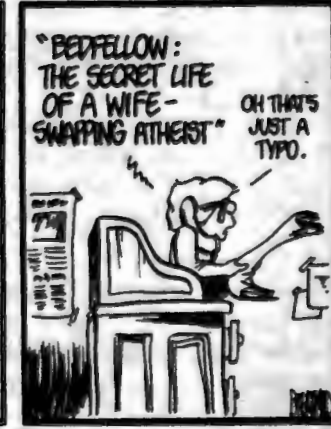
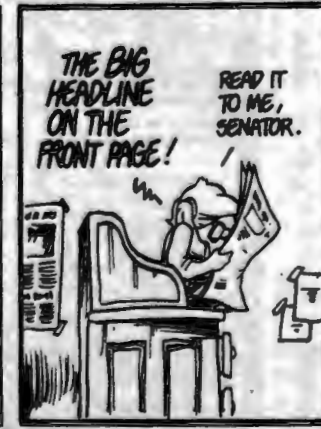
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m County"



SU student receives advisory spot on N.D. Higher Ed Board

By Rick Olson

A coin toss recently decided the appointment of Peter Rice as student representative to the N.D. State Board of Higher Education. He and the other candidate, Russ Reinbold of UND, each received three votes, which caused a tie vote on the board.

Rice, an engineering student at SU, feels very happy about his appointment.

According to Rice, his new position is an advisory one.

He will be gathering information about an issue that comes up before the Board and will be an information source to N.D. students.

He commented on how he will work with people in his new position. "I feel the best way to work with people is through small groups or one-to-one. It's the most comfortable."

Rice would like to see a newsletter go out to each student government.

He said it would be a breakdown of what happened at the Board level and the consequences of its actions to the schools themselves.

One of the first items he will look at when he assumes his office June 1 will be to look at the Title III program. He indicated that Dickinson State College is in danger of losing its Title III program.

The program, according to Rice, is a federally-based program to boost the basic skills of students.

He believes that remedial education programs should be available for students who need them. "Students should have an opportunity to go back and get the subjects they missed."

Government relations and student service commissioner Teresa Joppa made a presentation to the Board regarding a change she would like to see in the state law in regard to the student representative.

"Instead of the North Dakota Students Association giving the Board three names to choose a student representative from, NDSA should be asked to give the Board no fewer than three names—and no more than five."

She also suggested there be no limit on the number of students from any one school or a limit of two students from the same school.

She also recommended there be no consecutive student members from the same school. "This is so no school could hold the seat for more than one year in a row."

She would also like to see a word change in the statute to eliminate the words "non-voting" in case the student representative is entitled to a vote.

She also believes there should be a provision for rejection of all candidates if they do not meet with the board's approval.

She made several suggestions for qualifications of candidates for student rep. Joppa said there are no qualifications currently in board policy.

-A candidate must be a resident of North Dakota.

-Must be mature, responsible and representative of the students of N.D.

-Candidates must have good communications skills.

-Candidates also must be in good academic standing at their respective home institution.

-Also, students should have experience in working with their student government and in working with legislators, Board staff and members.

Rice assumes his position June 1. His first meeting on the Board of Higher Education will be in Wahpeton June 17-18.

Rice is also concerned about the cutbacks in federal student financial aid programs. "It has been brought up as to why there can't be any money taken from the state general fund to be used to replace the cutbacks."

Rice noted that officials are wary of that, fearing an educational situation similar to Minnesota's could

occur in N.D.

He said that Clark Wold suggested money be taken from charitable gambling revenues for educational assistance. In the first year, \$70 million was generated in revenue.

He also suggested that each college and university in the state should establish its own grant or loan programs.

Rice said that such a program could be funded from student activity fees. A figure, around \$1, from each student could be placed in a trust fund for such programs, according to Rice.

He feels if a student can't get money, he or she should have a chance to earn the money.

Rice would like to see private enterprise hire college students, and in return get some sort of tax incentives and tax breaks.

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- A. The policy is to purchase all used textbooks which a student decides are no longer needed or wanted and for which a requisition has been received at the time of the buy-back from the instructor indicating that the book will be used on campus the following quarter.
- Q. When does the Varsity Mart hold the book buy?
- A. Four times a year. Used books are purchased during final exams week of each quarter during the regular school year and at the end of the second Summer Session.
- Q. Where can books be sold that are no longer being used on campus?
- A. Used books that are no longer being used on campus can be sold during the book buy back, which is usually held in the Varsity Mart. Because of its size, the Varsity Mart is able to get the services of the Nebraska Book Company to do the buy back. Nebraska Book Company is the largest distributor of used books in the country. They not only send an experienced (and fast) book expert to buy the books which will be used on our campus, but being familiar with the needs of campuses throughout the country, books are purchased for nationwide distribution by them.
- Q. How much can we expect to receive for our books?
- A. If the book will be used on our campus, the bookstore will pay 50% of the new book price, no matter if the book was originally purchased new or used. The bookstore will then re-sell the book the following quarter at 75% of the new book price, a 25% saving to the student.
- Q. There are times when we must sell our books for much less, can you explain why?
- A. The used book business is a highly speculative business in that no one knows exactly what books may be in demand six months or even a year hence. New editions, new data in any given field, or any abnormal obsolescence often ends in a total loss. Buying against sales six months to a year in the future also requires expensive financing. By the time classes for a new quarter start, book jobbers have already stocked books in adequate quantity so must then buy on speculation, which means lower prices. The sooner students sell their books following each quarter, the better chance they have of receiving fifty percent of the new book price. We should also point out that the average life of a text book is three years, and the closer a book gets to this age the less resale value it has.
- Q. Can I receive cash for the books I sell?
- A. Yes! All used book purchases made by the University Bookstore are for cash.
- Q. Is there an alternative?
- A. Yes. Occasionally a campus organization, such as Blue Key, will operate a book exchange at the beginning of each quarter. Students can leave their unwanted books with them, naming the price they wish to receive. Presently, no exchange is in business but perhaps by next Fall there will be.

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Nine retiring teachers add up years of service

Nine faculty members and researchers who have served a total of 37 years have announced plans to retire from SU in June.

Dr. John Brophy

Dr. John Brophy, 58, professor and chair of the geology department, has been a member of the faculty for 23 years.

Brophy indicated he would be leaving teaching completely, but would be doing some consulting and continuing research work on his own.

At the University of Birmingham, he learned a new technique for using fossil insects to work out the details of the environmental changes of the ice age.

Under Brophy's leadership, the SU Geology Laboratory, sometimes referred to as the Fossil Beetle Lab, was created in 1969, and is one of four centers in the world where fossil insects, mainly beetles, are being used as indicators of ancient environments.

Brophy was awarded the SU Faculty Lectureship in 1972.

Dr. Catherine Cater

Dr. Catherine Cater, 65, professor of English, has also served for many years as coordinator of the SU Scholars Program.

This will be a semi-retirement for Cater, who will continue to teach a colloquium for third year members of the Scholars Program. She also will team teach a three sequential University Studies interdisciplinary course.

A member of the SU faculty since 1962, Cater was one of the founders of the Scholars Program.

In recognition of her scholarly accomplishments, SU has awarded to Cater the 1970 Blue Key Doctor of

Service Award, the 1976 Robert Odney Award for Excellence in Teaching, the 1978 Vogel Faculty Award in English and the 1982 Faculty Lectureship Award.

Cater is a member of the Advisory Council of the American Civil Liberties Union and past president of the National Collegiate Honors Council and the Upper Midwest Honors Council.

Beulah Gregoire

Beulah Gregoire, professor of physical education, is retiring this spring after 25 years.

Gregoire, whose teaching career has spanned over 40 years, joined the SU faculty in 1957 as chair of the women's physical education department. She served in that capacity until 1973 when she was named a full professor and appointed coordinator of the physical education undergraduate curriculum.

During her tenure at SU, she also coached tennis, supervised the renovation of the Old Field House and worked for the passage of Title IX.

A native Minnesotan, Gregoire attended Bemidji State College, now Bemidji State University, where she received a bachelor's degree in 1940. She earned a master's degree in education from the University of Minnesota in 1953 and has done graduate work at the University of Colorado and Colorado State University.

Honors received throughout her career include the 1965 Distinguished Service Award from the Southeast Division of Minnesota Association for Health, Physical Education and Recreation; the 1966 Honor Award from North Dakota Association for Health, Physical Education and Recreation; the Central District Association Honor Award in 1971, and induction into the Bemidji State University Athletic Hall of Fame in 1979.

Richard Lyons

Richard Lyons, 62, a member of the English department faculty since 1950, is the author of numerous books, chapbooks and poems, published locally, regionally and nationally. Lyons' most recent book, "Scanning the Land," was published in 1980 by the North Dakota Institute for Regional Studies.

The 157-page book of poetry and photographs conveys images of North Dakota.

His poems have appeared in the "Quarterly Review of Literature," "The Kenyon Review," "The New Yorker," "The Paris Review," "The Nation," and regionally in "Dacotah Territory," "Heartland II: Poets of the Midwest," and "Scopecraft press."

In 1976 Lyons combined photography and poetry in two programs prepared for the N.D. Committee for the Humanities and Public Issues (NFCHPI), "The Quest and the Questions," and "The Facts and Fantasies," both 30-minute color-slide poetry presentations.

Arnold Marzolf

Arnold H. Marzolf, 65, associate professor of German and a member of the faculty for 17 years, will continue teaching German on a part-time basis beginning fall quarter.

As ordained supply minister for

the United Church of Christ, Marzolf has served temporary assignments the past five years at Wahpeton, Hillsboro, Mayville and Fargo.

During the past 10 years, Marzolf has written portraits of six Biblical characters, Isaiah, John the Baptist, Matthew, Judas, Paul and Peter, which he enacts in costume in churches during the Advent and Lenten seasons.

Marzolf is the author of a recently published book for older children and youth, "Santa in a Peanut, for Peace with Love."

The book, published by International Germans from Russia Heritage Society in Bismarck, deals with symbols of values such as freedom and peace.

Dr. Frank Cassel

Dr. J. Frank Cassel, 65, professor of zoology and former department chair, is retiring after 32 years at SU.

Interested in birds and mammals from boyhood, Frank Cassel was given his first set of field glasses at the age of 10. His father thought young Frank ought to pursue a degree in math or physics, but Cassel decided early on that if he could get paid for watching birds, that was what he would do.

As a research scientist, he has studied waterfowl nesting along N.D. railroad and interstate highway rights-of-way, examined duck production in the Turtle Mountains, and recorded the feeding habits of blackbirds.

As a teacher, he has led students on many early morning expeditions in search of feathered fowl.

Richard Witz

Richard Witz, 66, professor of agricultural engineering, has been a member of the SU faculty since 1946.

Witz has developed two separate series of courses in electricity and utilities, one for engineering majors, and one for those majoring in agriculture.

In his research with the experiment station, Witz has focused on the reduction of labor and improving the efficiency of farm production. He has been closely involved in material handling research, as well as in the area of environment control for both livestock and stored agricultural products.

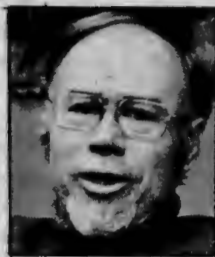
His early work was related to the use of electricity for mechanical refrigeration of farm products. He evaluated frozen food storage units at a time when they were not in general use and contributed greatly to their acceptance. He also has been involved in several research projects in connection with the use of electricity for home heating.

Dr. Arnold Schooler

Dr. Arnold Schooler, 65, professor of agronomy, will retire June 30 after 26 years of service to SU and N.D. agriculture.

Well-known for his research in barley cytogenetics, Schooler was an early pioneer in genetic engineering, transferring genes or genetic information from "wild barley" or other alien grass species or genera to the valuable common barley crop of North Dakota and the northern plains.

Schooler also was a leader of one of the earliest competitive grant pro-



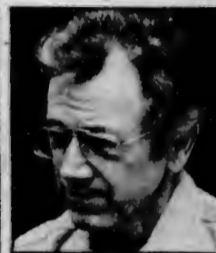
Dr. John Brophy



Dr. Catherine Cater



Beulah Gregoire



Richard Lyons



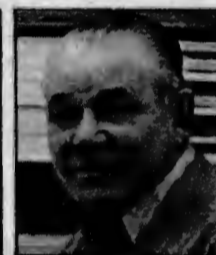
Arnold Marzolf



Dr. Frank Cassel



Richard Witz



Hollis Omodt

jects at SU involved with pioneering research on variable reaction of three weeds, perennial sow thistle, kochia and wild barley, to selective herbicides.

He is a member of five scientific societies and a Fellow of the American Society for the Advancement of Science. He published approximately 20 scientific papers during his career at SU.

Hollis Omodt

Hollis Omodt, 68, professor of soils and soils survey project leader in the agricultural experiment station at SU since 1956, has been involved in developing soils maps of all the counties in the state since 1954, and in classifying the major soils of North Dakota, as well as the properties of important agricultural soils as criteria for mine-land reclamation.

His publication on soils criteria for mine-land reclamation served as the basis of the N.D. reclamation law and contains data on the amount and type of materials needed for soil reclamation.

Omodt has served as the SU representative on the North Central Regional Soils Survey Committee since he joined the Experiment Station.

He has cooperated in work and served as the principal author of publications in the soils area, including the county maps that have served as a basis for development plans by both mining companies and power companies.

Omodt earned a bachelor's degree in agronomy at SU in 1941 and a master's degree in soils in 1961. He hopes to do some consulting after retirement, but adds, "I'm so busy right now I don't have time to think about it."

I plan on living a long and healthy life, so I get regular cancer checkups. You see, the best time to get a checkup is before you have any symptoms.

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Because if you're like me, you want to live long enough to do it all.



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Forsaken transportation unforsaken...

Bike giveaway foiled by owner

By David Sordahl

It seems there already is an owner to the Ladd Hall bicycle.

After publishing an offer for a drawing on the bicycle once owned by Tashaki Endo, several members of the chemistry department notified "The Spectrum" the bike had a new owner.

The bike was sold to Koichi Tamagawa, a post-doctorate student who is studying structural chemistry at the National Science Foundation in Washington, D.C.

Tamagawa is accompanied by Dr. Dick Hildebrandt, a chemistry professor from SU on one-year leave of absence.

Hildebrandt said the bike was sold to Tamagawa shortly before Endo

returned to Japan.

The bicycle is registered under Endo's name at the Fargo Police Crime Prevention Bureau.

In a telephone call from Washington Tamagawa indicated he still wants the bike Endo sold him and would not allow "The Spectrum" to offer it in a drawing.

Endo originally told "The Spectrum" he didn't remember selling the bike and didn't care to have it shipped to Japan.

The bicycle has since been returned to the study lounge in Ladd Hall where it remains along with more of Tamagawa's possessions including the couch shown in our previously printed photograph.

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Top-rankers announced—

SU students honored with scholarships

The following students were honored as the highest-ranked class members from each class based on overall grade point average.

Freshmen—Brian Bachmeier, Gwenda Cumber, Carol Erlandson, Brenda Gabel, Jeanette Gasal, Terance Gruenhagen, Carla Holweger, Kurt Knodel, James Moe, Jay Petersen, Christine Peterson, Anne Schoonover and Steven Spilde.

Sophomores—Gordon Dols, Nancy Ellis, Raymond Grabanski, Yvonne Jonk, Carlene Keller, Karen Mattice, Thomas Nelson, James Nicolai, Carmen Nohrenberg, Gail Petersen, Danette Sokoloski, Joni Williams and Marcella Zawierucha.

Juniors—Jenae Bunyak, Todd Foster, Barbara Hautanen, Thomas Henry, Tamara Jacobson, Bruce Klosterman, Wanda Lemna, Nita Morlock, Tracey Neff, Jean Nemzek, David Ortmann, Jon Pershke and Nadine Zent.

Seniors—Deidre Askew, Patricia Bair, David Bohrer, Douglas DeJong, Ruth Downs, Lisa Edison, Debra Feist, Wayne Koenig, Tom Ohe, Gregg Palmer, David Sitter, Brenda Skarphol and Barbara Stobb.

Thirty-four new members were initiated into the Phi Kappa Phi National Scholastic Honor Society. Students were selected to the society from the top 12 percent of the senior class and the top one percent of the junior class.

The following seniors were named to the society: Patti Anderson, Debra Haider, Shelly Haugrud, Jay Herman, Lori Horner, Bradley Johnson, John Kratzke, Keith Larson, Paul Liversage, Mary Lundeen, Sandra Luttmier, Brenda Mattfeld, Dean McCoy, Dale Mosser, Thomas Ohe, Melissa Oswald, Mark Paulsen, Robert Quintus, Ann Rehak, Gwendolyn Rust, Rick St. Germain, William Schulz, David Schultz, Cynthia Sperling, Gary Stein, Mark Timm, Scott Ward, Debra Young and Yvonne Ziemer.

Juniors named to the society were Barbara Hautanen, Carol Mattern,

Valerie Moilanen, Tracey Neff and Jean Nemzek.

The following students were initiated into the Mortar Board Senior Honor Society. They were selected on the basis of superior scholastic ability, outstanding and continual leadership and dedicated service to the SU community.

Susan Berg, Laine Blumer, Christine Carlson, Steve Dotzenrod, Jodi Uecker, Brenda Greenland, Michael Janke, DeAnn Johnson, Wayne Koenig.

Jennifer Kowalski, Darcy Kramlich, Wendy Ljungren, Lavonne Lussendon, Sally Marshal, Dale Mosser, John Nelson, Tom Ohe.

Twyla Presser, Scott Richards, Katherine Sebastian, Scott Staaka, Jerome Striegel, Liane Tabbut and Lori Wiest.

According to leaders of FarmHouse fraternity, members who received scholarships and awards (unless listed elsewhere) include Cliff Watts, National Merit Scholarship; Steve Spilde, Cenex Scholarship, President's Ag Club Scholarship, FarmHouse Scholarship, Alpha Zeta Freshman Award, John Lee Coulter Memorial Scholarship;

Eric Hofman, Choir Scholarship; Ken Mertens, Arlon G. Hazen Memorial Scholarship, Peter B. Molitor Memorial Scholarship; DeAnn Johnson, FHA Scholarship, N.D. Homemaker's Scholarship;

Steve Morris, Held Beef Industries Scholarship, American Breeder Service Scholarship, Little International Managers Award; Jim Lodoen, Louis M. Altringer Memorial Scholarship;

Dale Mosser, Grain Terminal Foundation Scholarship; Patti Anderson, Kuernes Lutheran Scholarship; Matt Vandal, Milo Lodoen Math Scholarship, Chamber of Commerce (Bottineau) Scholarship, Arne Helgason Scholarship;

Lyndon Anderson, N.D. Farm and Ranch Guide Scholarship; Scott Gerhold, Electrical Engineering Research and Development Fund Award; Kurt Krueger, President's Scholarship; Lavonne Lussendon, Frederick G. Walsh Scholarship in Speech and Theater, Alumni Association Drama Scholar; Greg Krieger, William Eckstrom Scholarship, Grain Terminal Foundation Scholarship;

Jeanne Otterness, Elsie Stark Martin Scholarship, N.D. Dairy Council Scholarship; Gregg Davidson, Cargill Incorporated Scholarship; Jay Herman, Cargill Incorporated Scholarship;

Yvonne Koeppline, Gil Stafne Memorial Scholarship; Lyndon Johnson, President's Agriculture Club Scholarship, Grain Terminal Foundation Scholarship; Tim

Backman, Monsanto Agricultural Products Co. Scholarship; Mike Janke, Vernon C. Lee Memorial Scholarship; Ward Hoge, Bruce J. Beilke Memorial Scholarship.

Other awards that "The Spectrum" has received notification of include Jenae Bunyak, Scholars Program Scholarship, Professor Ralph Engel Scholarship; Sue Dale, Eleanor R. Schulz 4-H Memorial Scholarship; Pamela Erickson, Mart and Louis Vogel Award for Excellence in English Studies;

Dorian Flood, Rooney Scholarship; Sandra Gronhovd, Mart and Louis Vogel Award for Excellence in Teaching; Carla Haas, Professor Ralph Engel Scholarship; Ralph Jansa, Ralston Purina Scholarship award;

Joan Maring-Nelson, Student Design Scholarship; Tamela Mills, G. Wilson Hunter Scholarship; Deb Nelson, District Student Nurse of the Year;

Marty Peterson, Farm Credit Banks Scholarship; Julie Stillwell, North Dakota Press Women Scholarship; and Paul Wyntergreen, Mart and Louis Vogel Award for Excellence in English Studies.

Andy Oboh, Maurice Seaton and Djana Koutovan received certificates of appreciation from the African Students Union.

The following Army and Air Force Reserve Officer Training Corps cadets received awards recently.

James and Michael Aberle, Richard Albrecht, William Andersen, David Balda, John Barrett, Harold Beaman, Ryan Bosch, Paul Brendemuhl,

Meade Carlson, Peggy Cawelti, Steven Conyne, Thomas Cook, Keith Corliiss, Robert Culhane, Michael Dosland,

Frank Egan, Ron Emerson, John Fuhrman, Rick Gibney, Brenda Greenland, Paul Grindeland, Vicki Hanson, Paul Helt, Thomas Hegna, Larry Heisler, Michael Isom,

John Johnson, Melanie Johnson, Douglas Kading, Jason Kaseman, Max Kirschbaum, Eugene Kleiser, Jr., Paul Klyve,

Carol Lund, Louis Lund, Harold Marty, Joseph Michenfelder, Mike Miller, Kimberly Miller-Bent, Barbara Montee, Dawn Morfitt,

Daniel Nash, Andrew Nelson, Eric Nelson, Michael Nylin, Timothy Olson, Wanda Peterson, Michael Presnell, John Puttre,

Timothy Roscoe, Robin Sahr, Daniel Schaefer, Barb Schmidt, Steve Simonson, Thomas Sly, Roland Smith, Matthew Swartwood,

Daniel Telford, Lisa Tonn, Lenae Vetter, David Vigstol, Richard Weyrauch, Michael Winkler, James Wolf and Jack Worley.

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THE ENTERTAINER

By Murray Wolf

This is the last "Entertainer" of the year (whoops, cries, shouts of glee).

This is also my final column for "The Spectrum" (yelps, hoots, tears of joy).

It's been fun folks. I'd recommend it to anyone.

Now, as for what's happening this summer.

YOU CAN'T BEAT THE BAND

Students on summer break and summer school students, along with faculty, staff and folks from the community combine to form the SU Summer Band. They'll be providing us with a concert on the Union patio mall 7:30 June 24.

It's free, the public is invited and Orville Eidem will be the director.

SUMMER THEATRICALS

The SU Repertory Theater launches its second season this summer with three exciting plays which will run concurrently most of the summer.

The season starts July 5 with the thriller "Night Watch." "Perfectly Frank" begins July 7 and "Mary Mary" is slated to open July 9.

Weekly performances of all three productions will continue through Aug. 14.

PLAINS AND ROURKE

The Plains Art Museum, 521 Main Ave., Moorhead, will open the summer with the works of Earl Linderman.

Linderman is a noted Arizona artist who specializes in paintings, prints and lithographs.

The show is called "True and Incredible Adventures of Doktor Thrill" and it will be on display well into June.

The Rourke Art Gallery, 523 S. 4th St., Moorhead, features "Light Abstractions," "Minnesota Ceramics Invitational," "The Fish Show" and the porcelain works of Kathryn McCleery right now.

Additional shows will be presented at both the Plains and the Rourke during the summer months. Admission is just one dollar for both galleries.

OUTDOOR ADVENTURES

I don't know if this is art, but it's surely entertainment. The SU Outing Center is presenting a whole series of exciting outdoor events

throughout the summer.

Five canoe trips, the first one beginning May 30, are slated for the summer for the Boundary Waters Canoe Area in northeastern Minnesota. Four other canoe outings and a horseback riding/hiking/camping excursion is also planned.

The Outing Center features a wide variety of bicycles, camping and cooking equipment, canoes, packs, sleeping bags and tents you can rent-

-all at a reasonable cost.

For more information on the outings or the rentals, call the Outing Center at 237-8911.

COMMUNITY THEATER

Tickets are on sale now for the F-M Community Theater's fantasy musical "The Dancing Princesses." This production for children of all ages will run June 4 through 6.

Children get in for \$2, adults for \$4 with tickets available at FMCT ticket office. Reservations can also be made by calling 235-6778.

ODD END

Warm feelings to all Weasels and Dinks out there but hey: don't come knocking on my door tomorrow morning at 2 a.m. unless you want your membership revoked.

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Letters to the editor

Letters are due noon Wednesday, Sept. 12.

Steve Martin
in
Dead Men Don't Wear Plaid

Eve. 7:15, 9:15

PG

Wrong is Right

Eve. 7:15, 9:15

PG

On Golden Pond

Eve. 7:00 9:00

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Asia

From sonnets to futuristic music—

Debut supergroup Asia packs Orpheum

By Gary Niemeier

The appearance of Asia at Minneapolis' Orpheum Theater May 17 created the sort of excitement that only powerful and innovative rock music can provide.

All the elements of a special event were there: long lines of people stretched down Hennepin Avenue, scalpers asking sky-high prices for

an Asia ticket and a high-tech multilevel stage set-up.

Perhaps the most intriguing fact was the group's debut album "Asia" reaching number one in the United States.

This is the first album by a new group to accomplish this since Bad Company in 1974.

According to David Geffen, presi-

dent of Asia's record label, Geffen Records, the Asia album will go multi-platinum (2-3 million units sold) in the near future. This would make "Asia" one of the best-selling debut rock albums ever.

The atmosphere inside the historic Orpheum was heavy with expectation. The crowd was older than average; no doubt many Yes and Emerson, Lake and Palmer fans were in attendance.

The audience was warmed up by the juggling talents of Chris Bliss, who hurled colored balls to the recorded sounds of Jean Luc-Ponty and a Beatles' song, "A Day in the Life."

A futuristic tone of the show was set immediately as the curtain opened and Carl Palmer's drum set moved majestically to center stage.

The other Asia members took their places to the strains of an Elizabethan sonnet played through a guitar synthesizer.

As a debut group, the band lacked original material and thus the entire Asia album was played.

The emotional high points of the show came when Steve Howe stepped forward with an acoustic guitar to do two of his classic Yes solos, "The Clap," and "Mood for a Day."

Carl Palmer also cut loose with a frenetic drum solo and was greeted with a thunderous standing ovation.

Although the central performers in the band are clearly Howe and Palmer, former Buggles' members John Wetton and Geoffrey Downes were in superb form.

Downes had technology on his side with his massive bank of keyboards set on a platform above the drums and controlled by a portable IBM computer.

A VCR screen provided keyboard settings to Downes during the show.

Highlights of the show included "Time Again," "Sole Survivor" and, of course, the encore, "Heat of the Moment."

Many people in the audience seemed disappointed by the lack of a second encore, but there was really nothing more they could play.

What makes the Asia sound so special? Unlike so many groups today, Asia practically has a patent on sounding heavy and intricate at the same time.

Howe's penchant for the musically unexpected can cut through even the most ponderous songwriting. His guitar phrasing is exact and powerful.

At this point in time Howe is probably rock's most innovative and masterful guitarist.

Special to this show were the unveiling of three new Asia songs.

The best of these was "Midnight Sun," a synthesizer extravaganza that had all four members playing keyboards. Look for this song on the next Asia album.

According to George Kuezedos, Asia's booking agent, the band finishes up their tour in mid-July and will head back to England to rest and plan the new album.

One vivid memory remains after the show—the sight of about 30 young people chasing Steve Howe's limo three blocks down the street. Asia has definitely arrived!

Asia has many heated moments

By Bruce Bartholomew

Indescribable is the only word that can be used to attempt to describe Asia's debut album.

With members from Yes, Emerson Lake and Palmer, and Buggles, Asia is an excellently prepared band for today's styles of music.

Carl Palmer, drummer for ELP, is providing the steady beat and his contributions to the sound are enormous.

Steve Howe, guitarist from Yes, proves that there are more than the upper frets on his guitars.

Once a keyboard player for Buggles, Geoffrey Downes now uses his talents to add color and life to his already extraordinary band.

But the glue that holds it all together is the new ideas from John Wetton, the group's lead vocalist and bassist, formerly of Buggles and King Crimson.

Wetton gives most of his efforts during the songs but behind the scenes he proves he can write as well as he sings.

One can find his name associated with every song on the album.

The album starts out with "Heat of the Moment" and startles the listener with lyrics that aren't drowned out by heavy guitar licks or keyboard riffs.

Howe gives an excellent effort in a solo. The only problem is the rest of the band can also be heard and adds much flavor to the strumming.

"Only Time Will Tell" is a tune about the predictions of the future and Downes puts in his two cents when he makes his keyboards sound exactly like a horn section from the Boston Philharmonic.

Howe's wailing guitar sounds very similar to Downes' keyboard and the two become very indistinguishable at times.

"Sole Survivor" is an excellent combination of all instruments. All the pieces provide excellent intercessions between lyrics.

The group Kansas comes to mind when listening to "One Step Closer" during the beginning of the tune but that's where the similarities end.

This piece is about the writer trying to meet a woman and working it one step at a time. The only problem is the band tends to be drowned out by Wetton's vocals.

Turning a musical scale into a tune seemed no problem for Wetton and crew as can be heard by listening to "Time Again." This is one of those tunes that must be heard in stereo to really appreciate the clarity of the vocals and the diversity of the various instruments.

Howe mixes riffs and sounds from his guitar during "Wildest Dreams," a song about things happening in his world and his disbelief in them. There's no sight of a sad love song in this tune.

Asia gives rock'n'roll a good name by executing a soft, mellow tune in excellent styles. A change of melody in mid-song gives the listener an idea of how good Wetton really is with his writing.

A classical guitar could never make it on any rock'n'roll album but Howe does justice in "Cutting it Fine." He then comes back to answer himself on an electric guitar. Both sets are clear and crisp.

A cathedral type sound is produced from a union of piano and keyboard and together they are superb.

"Cutting it Fine" is a tune that older people could enjoy and would not be irritated by the noise of the guitars. The only problem is it didn't last long enough.

The final tune is "Here Comes

That Feeling," a tune about falling in love with a girl again. Wetton uses many cliches in describing the return of a love.

As a first effort in the record market, Asia has reached the top of the charts and their second effort should be as good if not better.



The Tubes

Backward Completion Principle-1

"In order to understand the true meaning of the Backward Completion Principle, we ask that you listen to both sides of the record in one sitting."

Those precious words are the first on the Tubes' newest entry and are really unnecessary as the album really doesn't have any meaning at all.

"Talk to Ya Later" is a tune about a girl rejecting a guy and his saying he'll return.

Fee Waybill provides excellent vocals on this tune that starts out the album.

Included in the lineup of tunes are "Sushi Girl," "Amnesia" and "Mr. Hate." "Sushi Girl" is about a prostitute that the writer goes to for sex when his girlfriend has left him.

Forgetting his girlfriend in the topic of "Amnesia." This tune dwells on the unusual sound from two guitars.

"Mr. Hate" is the culmination of lots of work and the band members complement each other quite well.

"Mr. Hate" and "Don't Want to Wait Anymore" are probably the only tunes where the Tubes get their act together and produce something meaningful.

The last song on the album is entitled "Power Tools" and has a disco beat. The tools Waybill sings about are not power drills and saws but the tools of power such as armies and navies.

The overall attitude toward this album by the group was not good and it shows when one spins it on the platter and attempts to listen to it.

Spectrum plea for help No. 14

We still need people. Deadline for applying is 5 p.m. today in our newsroom, south side, Union's second floor. Now is the time to show us a few things or two. (If you like Asia or heavy metal music, good luck in getting hired.) Just joking...

WELCOME!

To Bethel Evangelical Free Church
1602 South University Drive, Fargo
Bible Centered Preaching

Sunday Services: 8:30 and 11 a.m., 7 p.m.

Bus Pick-up at:

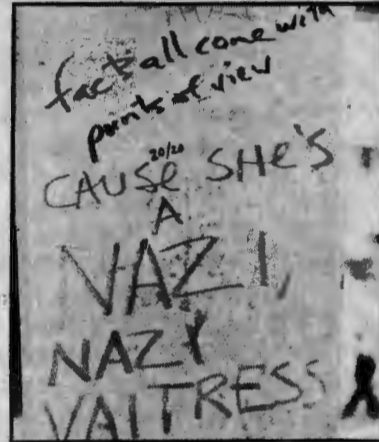
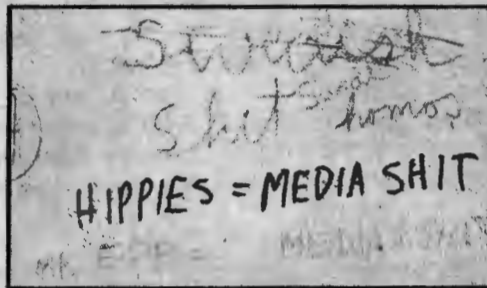
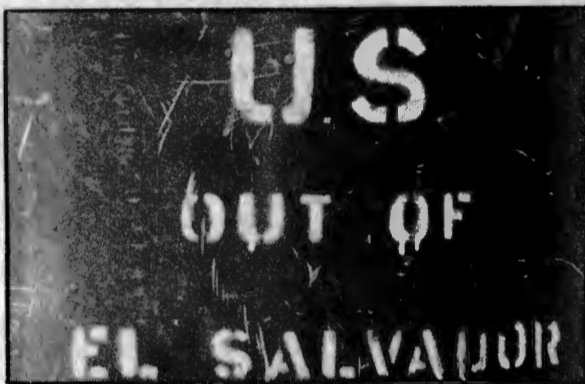
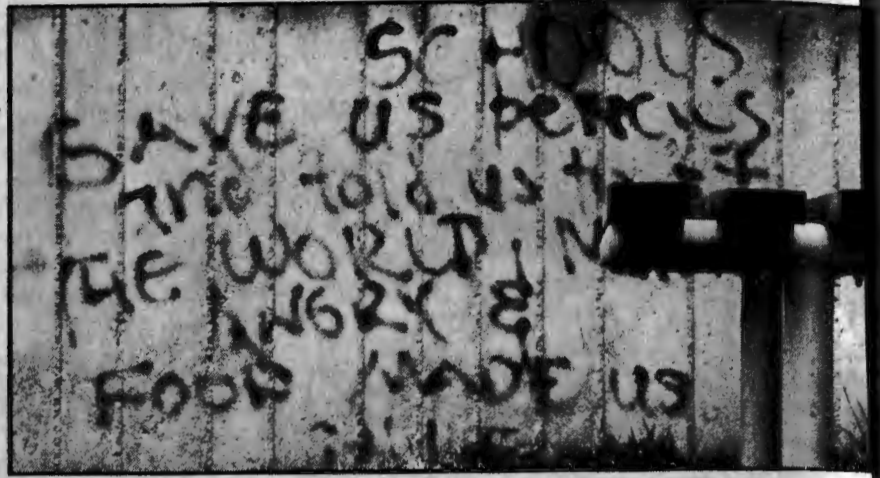
Weible Hall 10:30 a.m.
Churchill Hall 10:35 a.m.
Burgum Hall 10:40 a.m.

For Further Information,
phone 232-4476



Graffiti: The state of the art

Photos by Brig Larson and Roger Whale



Faculty cooking experts: Spicing the instruction

By Bruce Bartholomew

Food is something we need to put into our bodies everyday. One problem is food can get dull and lifeless. So the preparer of this food needs new ideas to add color and spice to the ordinary.

And these new ideas come from recipes. Which can be easy or complicated.

They can come from the President of the United States or a hobo traveling from town to town.

As a public service to the students, "The Spectrum" has decided to compile a list of recipes from various department heads throughout SU.

In compiling these recipes, quite a few phone calls were made to the respective heads of departments.

"Are you kidding?" was the most popular response when they were asked for their favorite recipe.

One would think Home Ec would be a good place to get recipes, but only one volunteered her favorite while the rest declined saying they didn't have a favorite recipe.

In fact, this was the response throughout campus. One could probably assume our beloved department heads don't eat or they just eat TV dinners all the time.

Jack Carter, agronomy

Bread

2 cups whole ground wheat
12 cups Dakota Maid flour
2/3 cup oil
1 cup sugar or 1/2 cup sugar with 1/2 cup honey or 1/2 cup sugar and 1/4 cup honey and 1/4 cup molasses
4 cups hot water
1 cup water combined with 2 Tbsp yeast powder and 2 Tbsp sugar
1 cup quick oatmeal
2 Tbsp salt

Combine whole wheat, oatmeal, hot water, salt, sugar and oil. Then add

four cups of flour. Mix together thoroughly. When this mixture is cool, add yeast-water and the balance of the flour. Let the dough rise and punch it down. Do this one more time and then form into five loaves of one and a half pounds each. Let rise in the pans and bake for one hour or 65 minutes in a 375 degree oven.

Cecil Elliott, architecture

Midnight Snack

English muffin
Chipped beef
Cheddar sauce for Welsh Rabbit
Hard boiled eggs

Toast English muffin. Moisten beef in a small amount of water and bring to boil. Next drain the beef. Place the muffin on a plate, place the meat on the muffin. Slice the eggs on top of the beef. Pour cheese sauce over the whole thing and serve.

Lou Richardson, communications

Ice Cream Sauce

1 1/4 cup brown sugar
3/4 cup white corn syrup
3/4 cup whipping cream
1/4 cup butter

Combine all ingredients in saucepan and bring to a boil. Boil for one minute and cool. Serve this mixture over ice cream.

Alberta Dobry, home economics education

Hot Weather Pie

1 graham cracker crust
1 quart vanilla ice cream
1 small can lemonade concentrate

Mix ice cream and lemonade concentrate and pour into pie crust. Place in freezer and chill. When frozen, serve.

Dale Conrardy, Air Force ROTC

Yellow Rice and Chicken

1 fryer or 1 lb. shrimp or scallops
1 onion
1/2 cup olive or salad oil
2 1/2 cups water (2 cups for shrimp or scallops)
1 bay leaf
1 tsp. salt
1 button garlic
1 green pepper
2 oz. tomatoes or 1 fresh tomato
1 package saffron
1 cup rice
1 2 oz. can Petit Pois or 1 cup small peas

Cut chicken in quarters and fry until lightly brown. Saute or fry onion and green pepper until tender; add tomatoes and cook on medium heat for three to five minutes. Pour water, bay leaf, saffron and salt in and bring to boil for five minutes. Add chicken and cook covered on medium heat for 30 minutes (for shrimp or scallops, cook as long as directed by the package) Bring to vigorous boil again and add rice, stirring. When rice comes to boil again, cover and turn off heat. Steam for 20 to 30 minutes. Garnish with peas.

Michael Lyons, history

No Mixer Chocolate Cake

2 cups sugar
1 tsp. soda
2 sticks butter or margerine
1 cup water
2 eggs
2 cups flour

1/2 tsp. salt
4 Tbsp cocoa
1/2 cup buttermilk
1 tsp. vanilla

Sift sugar, flour, soda and salt. Set aside. Boil butter, cocoa and water. Pour over dry ingredients and mix. Add buttermilk, eggs and vanilla. Bake at 350 degrees.

Icing for Ne Mixer Chocolate Cake

1 stick margarine
1 Tbsp buttermilk
1 tsp. vanilla
4 Tbsp cocoa
1 lb. powdered sugar

optional:
1 cup nuts
1/2 cup coconut

Bring margarine, cocoa and buttermilk to boil. Add sugar and vanilla and nuts and coconut, if desired. Pour over cake when cake is cool.

John Monzingo, political science

Prime Rib Roast in Rock Salt

5 lb. rib roast
10 lb. clean rock salt
pepper

Rub roast with pepper. Place salt in large bowl. Add 1/4 cup water and toss. Place a large brown grocery bag on a cookie sheet. Fold down top. Place one inch of salt in bag. Place meat thermometer in meat and place meat in bag. Pack salt around sides and over to make at least one-inch layer. The top of the bag should be no higher than salt or it will burn in oven. Place in 450 degree oven. Remove when thermometer indicates desired level of doneness. Crack rock salt with a hammer and remove. Serve.

KDSU boosts power to cover more listeners

By Lavonne Lussenden

During the summer and fall of 1922 members of the engineering department of the North Dakota Agriculture College built a 50-watt broadcast transmitter as an experiment. Although it was assigned the call letters WPAK, it was the beginning of SU's present day KDSU.

Since 1922, KDSU has undergone many changes. The most recent is set for June 1, 1982, when KDSU expands its power to 100,000 watts from its present 1,250 watts, according to Roger Grimm, promotion and production manager for KDSU.

Grimm said the need for the power increase stems from interference. "We are low enough down to the ground that you get a lot of interference from different buildings, especially in the downtown area and depending on which direction you drive out of town the signal reduces much sooner.

"The new tower will have a center of radiation of 1,000 feet and when you get up that high the signal will

carry much better and we won't have the interference we have now," Grimm said.

Another reason for the power increase is the expansion of the city of Fargo.

KDSU, as a member of National Public Radio, must meet the criteria for affiliation. One criteria is there must be enough power to adequately cover the city served, Grimm said.

Presently, of the 260 public radio stations in the nation, KDSU is ninth from the bottom in terms of power.

"Plans for the power increase have been in the works for three to four years now," said Jim Hetland, chief engineer for KDSU.

"Dr. Loftsgard formed a committee of SU faculty in the spring of 1979 to study the feasibility of expanding KDSU's coverage area."

After receiving consent from the committee, a construction permit was obtained from the FCC. The total project cost was estimated at \$150,000 and KDSU received a \$115,000 grant from the Department

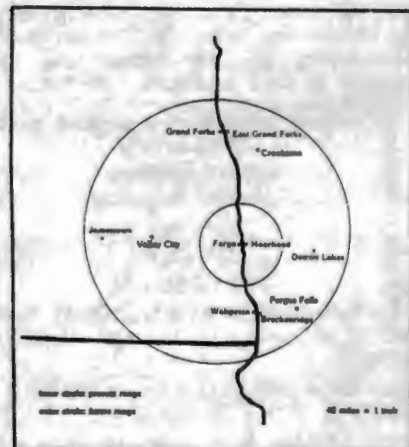


Darrel Biteler (in cap) and Wayne Resel of a local tower service lift two elements of SU's new broadcast antenna to the top of the tower near Amenia, N.D.

a shipment of \$17,000 worth of transmission line that was damaged. We had to repair it at a cost of \$500 before it could be installed," Hetland said.

The new transmitter is located at Amenia, N.D., which is 20 miles northwest of Fargo, on the Prairie Public Television tower.

Increasing the power to 100,000



The expanded signal range

watts will place 417,400 people within range of the signal, which will reach out about 92 miles from the new antenna.

KDSU's power presently reaches the F-M area. With the power increase up to 100,000 watts the sound will reach Jamestown, N.D., Detroit Lakes, Minn., Wahpeton, N.D. and Grand Forks, N.D.

According to Hetland, this is a 4,683 percent increase in coverage area over the present system.

"The old transmitter on the campus of SU will remain licensed as a standby in case of emergency," Hetland said.

Grimm said KDSU's format basically will not change drastically in the near future. However, there are many ideas for improvement.

"There is a possibility that in the future some of our commentators will come from the outlying areas by phone. We also hope to develop a phone system where people from the Valley City or Wahpeton area could call in to Morning Call without getting stuck with the price of a long distance phone call," Grimm said.

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1.5

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of Commerce with the remaining cost locally raised.

According to Hetland most of the equipment has been installed and the next step is to test the equipment at low power and then refile with the FCC to get an actual license to broadcast with the new transmitter.

"The biggest problem we had was

Spectrum test plan for help No. ?

HELP!

The Bottle Barn Liquors would like to thank NDSU students and faculty for making this year such a success!!!

We hope to see you next year!!

Have a good and safe summer!!

THE BOTTLE BARN LIQUORS
1314 1st Ave. N., Moorhead 236-5978

If you're worried about cancer, remember this. Wherever you are, if you want to talk to us about cancer, call us. We're here to help you.

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2,000,000 people fighting cancer.



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FOR RENT

Typewriter Rentals: Save at A-1 Olson Typewriter Company; 635 1 Ave. N; Fargo, ND. Phone 235-2226.

Summer rooms for rent: Full use of house, excellent location. Theta Chi Fraternity. \$60/mo., 237-5830.

Near SU: 1 to 4-bdrm. homes and duplexes available June 1. Reasonable, will rent for 3 summer mo. too or Sept., 280-2595, leave message.

WOMEN SUMMER STUDENTS! Phi Mu has rooms available 1 block from SU. \$75/mo. double occupancy includes kitchen use, coin washer & dryer available. Call Pam, 293-5180 to reserve by June 1.

Co-op Living
Male - Female
Summer Housing
\$60/mo.
235-1178
1201 12 Ave. N.

STUDIO APT., near SU, utilities paid, \$130. 232-4722.

Across from OFH, 2-bdrm. house. 293-9310
2 & 3-BDRM. APTS.

Nice and big—these won't last long, McDonald's, 293-3039.

1-BDRM. & EFFICIENCY APTS.
Nice and clean, starting at \$185. Call today, McDonald's, 293-3039.

SU & ST. LUKE'S AREA
1-bdrm. apts., \$185-\$235. 2 & 3-bdrm., plus efficiency apts, McDonald's, 293-3039.

Apt.: starting May 25. We'll throw in 2 wks. free rent!! Located across the st. from Churchill. 1-bdrm. Call 237-4224.

Furnished 2-bdrm. apt: 1/2 block from SU. Free washer and dryer, utilities paid. Available summer mo. only. 293-8226 (Mike), 232-6766, (MID)

FOR SALE

Electric Typewriter Sale: Save at A-1 Olson Typewriter Company; 635 1 Ave. N; Fargo, ND. Phone 235-2226.

Phone and 10-speed. Call 235-0968.

1981 H Yamaha. Excellent condition. Call 232-4086 before 2 pm.

1979 GS850 Suzuki windshield, backrest, new rear tire. Must sell. \$1650. 235-5197 evenings.

2x2x2 Kenmore fridge. Great for dorm. 241-2815. Ask for Dawn.

Darkroom equipment; Omega B-22 enlarger with 55 mm & 80 mm enlarging lens. Trays, filter, safe light, mixing bottles and easels. Also some chemicals & printing papers. Complete, \$300. 237-3325 nights & weekends

For summer thirsts, pre-sweetened powdered drink mix, 8 qt. size, 4 flavors, \$1/can. \$10/case of 12. Gamma Phi Beta House, 237-4453 or 237-4452 before June 1.

WANTED

GARAGE TO RENT NEAR Northside Piggy-Wiggly Store. Reasonable. Call 233-5965.

FALL BABYSITTING JOB—IN MY HOME (2 blocks from SU) for someone who enjoys playing with babies, MWF mornings. 8:30-12:30. 293-1269

MOTORCYCLE PARTS USED. BSA, Triumph, Honda, Norton, Yamaha, Suzuki, Buellco, Kawasaki, Harley, Chapparell. We buy junked wrecked basket bikes. 293-8874

Female roommate after June 15. Pets allowed. Karen, 233-9390.

Occasional summer babysitting for someone who enjoys playing with kids. 2 blocks from SU. 293-1269

1 or 2 female roommates to share 2-bdrm. apt. 1 block from SU. 280-0652

Someone to sublet 2nd bdrm. in house. \$90/mo., heat included. Available immediately. Call 237-4847. If no answer call 293-5451.

Non-smoking female roommate wanted. Furnished apt., \$82.50/mo. June 1. 236-3342, SU.

Needed: 1 female roommate for a 2-bdrm. apt. 2 blocks from SU. Less than \$100/mo., heat paid. Call 232-7497, Pam.

Student peer counselors for Concentrated Approach Program. 1 pass/fall credit in Educ. 120 and help an incoming freshman SU student. Sound interesting? Call Dan Wanner at 237-8406 or stop by 212-A S. Wng. for an application or more info.

Incredible income. Ground floor. No competition. \$5000/mo. potential. Details. Box 270728; Dallas, TX 75227.

Ride needed to Nigeria. Help pay for gas. Call Toyin, 241-RIDE.

2 FEMALE ROOMMATES TO SHARE FOR SUMMER. HOUSE LESS THAN 1 BLOCK FROM CAMPUS. Individual bedrooms, \$71/mo. & utilities. Call 235-6110.

Roommate wanted for the summer months. Phone 235-3233.

Female to sublet an efficiency. Rent: \$140/mo., self-contained, Elec. included, from June 4 to Sept., '82. CONTACT: Ms. Darlene, 237-8974 (SU), 293-0703 (Home)

One partner for wilderness canoe travel this summer. Ont., Man., Sask. Have equipment, maps, etc. 232-4372

SERVICES OFFERED

FAST, ACCURATE TYPING. JEANNE, 235-2656.

Typing—fast, accurate, letters, papers, resumes, theses. Call Noel, 235-4906.

TYPING THESIS TERM PAPERS \$8.00 293-6623.

LOST & FOUND

LOST: 5 keys on Red Key Ring. 235-8592 before 10 am.

STOLEN: Oriental jacket, reversible. One side: off-white w/black trim. Other side: Large bright flowered print. Reward if returned. No questions asked. 241-1902

LOST: Men's class ring. Silver-toned Argentus with green stone. Aneta High School, 1980, name written inside. REWARD! Please call 241-2898, evenings.

LOST: Gamma Phi Beta Active Badge. If found please call 241-2827 or 237-4452. Reward offered.

the very last 1981-82 MISCELLANEOUS classes MISCELLANEOUS

Come on SU students, show us your talent! Seeking a variety of entertainers for Summer Activities program. If interested contact Julie at 237-7799.

The Old Broadway wishes all you college students a great summer! We'd like to send you off in style with a Bon Voyage party on Wed., May 26. Free champagne for you and your friends from 5-8 pm. Bon Voyage!

BLACK HOLE: Fill in void in your life. Now at the Burr Patch Game Center. Only \$25.

Outdoor service will be held by the University Lutheran Center Sun., May 23 at Oak Grove Park. Rides will leave the ULC at 10:30. Dinner served afterwards.

Immediate cash for rings, Gold, Silver and Diamonds. Gold Connection; 714 Main; Fargo, 280-0066.

Joanne, the deep south is after you. Smile, you big hunk of honey. RM

Gay students united. A support group for women and men students who are either openly gay or who are seeking to deal with their sexual identity. Social activities and informal rap groups are held regularly. Confidentially respected. If you are seriously interested, call for more information. You are not alone! 236-2227

The Love Boat lives! Free champagne and romance can be found at the Old Broadway! Bon Voyage party for all college students. Sail with us on Wed., May 26. Bon Voyage.

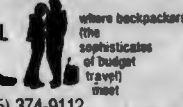
DAVID JOHN: We congratulate you for being unanimously elected as our charter primary executive apprentice among fellow learners. God Bless You!

1 couch—very good condition; 1 hide-a-bed, needs new mattress; 1 dining table and 4 chairs, excellent condition. Call Wayne, 280-0933 or 282-2804.

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Agents wanted: Tel: (305) 374-9112



Lori C. Thanks for the great graduation present!!! Nathan R

Thanks to all those who made my 3 yrs. at SU a pleasurable experience. Toyin O

Congratulations all graduating Kappa Alpha Theta seniors. Good luck in the years to come. We'll miss you. Your Theta Sisters

Tammil, Nicki, Curt—Good luck with Finals!! YGM/YBS

Cows go moo and ducks go quack. I'll be counting the days until you come back. Have a great summer, Toots. I'm gonna miss ya! XO YLB

KAPPAS—wear those KEYS with PRIDE!!

LOOK OUT MINNESOTA!! It's Stacie's 19th Birthday on May 27. Call and wish her a happy one at 241-2845. Happy 19th Stacie, Your roommate, Mary.

KAPPAS—Thanks for some Great Memories! Love you all! Loyally, Kate

Say farewell to your friends at the Old Broadway's Bon Voyage party for college students. It all takes place Wed., May 26, 1982 with free champagne from 5-8 pm. Bon Voyage!

STUDENT JOBS

Looking for the perfect summer job?

YES. Enjoy our pay.
\$600.00 & up to start
4-day week.

Interviews:

Monday, May 24
5 pm & 7 pm

CREST HALL

PLEASE be prompt!!

To all SU students: Good luck with finals & have a great summer. From the Gamma Phis

Marge, thanks for everything! You're GREAT

Jeff

Dad, I found a REAL nice Thoroughbred, quarterhorse mare... sorry Paint.

Call sometime...

Nonette, you wench you! (1st defin. Someone thinks you're SPECIAL! Have a summer, Sweetie!

Congratulations Pat, Jane, Sue and Julie will miss you next year. Your GPB S

Congratulations Gamma Phi Betas Natives, Rozanna, Kim and Gisele.

Act-Info. Desk Personnel—(Past & Present) Thanks for all of your cooperation and being such a great bunch to work with. miss you next year! Have a great summer!

Randy—I'll be there to cheer you on to victory on Sun. and I won't forget the beer & wiches. Just a Dam W

Curt—Have fun sliding around in your satin sheets. I'LL GIVE YOU SOME PRACTICE FOR SLIDING IN A FEW HOMERUNS ON GOOD LUCK! Sun

Women of the World: I'll be back next year! Satisfier, you couldn't satisfy yourself on a lonely night.

COME ON, COME OUT!! 3 fun-loving, outgoing guys want to do some spring clean. Want to meet other males for sincere friendship and good times. Write PO Box 585, Fargo, ND 58107

Satisfier, next year we have a rematch. prove I am the true World Champ and you are the lowest form of life, Scum.

TOM SMITH... the END is near. CONGRATULATIONS!!! —The "Outlaw"

TERI KRIEGER'S BIRTHDAY TODAY! Doesn't it just blow your left one? Oh GAG ME! Happy 20th!

The last time the Satisfier satisfied anyone was his tag team partner.

MEMO to the SPECTRUM Staff: It's been real, but it is time to flee this place. Hang in there and GOOD LUCK! signed: Been Here Too Long.

Keep up the good work, Dave. You make a great S.O.B.

JOBS...Here I come. ????????

Programs of violence as entertainment brings the disease into your room. We know the germ which is man-made in metal really the key to your own tomb. Prevention is better than cure. Bad apples affecting the pure. You'll gather your senses I'm sure and agree to MELT THE GUNS. Children will want them, mothers support them. As long as your killers are heroes. All the media will fiddle while Rome burns. Acting like modern-time Neros. 1982 by X

Aroo-coo-coo-coo-roo-coo-coo. O.K. It's today's topic is the last issue. So, like we're going to do now is like drink some beers and maybe play a little golf. So, like we're going to have some pretty girls along Beauty, eh? Like, one more thing. We met that Eric Hyden character. Sure, he was a hosehead, but he bought us Molson's. Like, Good day, eh (You too, Eric, wherever you are).

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behind Gamma
Phi Beta
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An extra 50¢ off when coupon is brought in after 9 p.m. Mon.-Sat.

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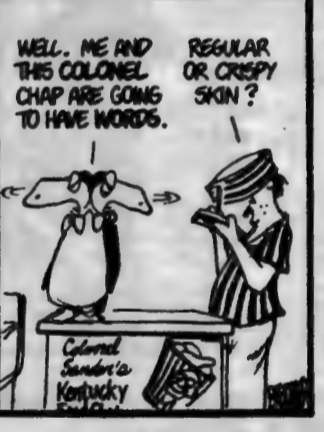
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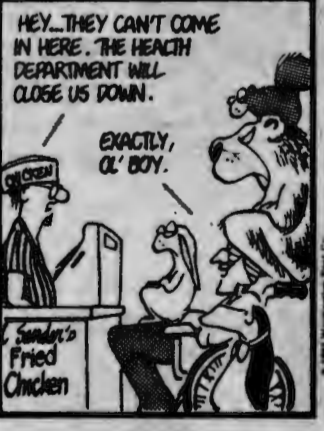
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Sportsview: A commentary on the year of SU sports

By Kevin Christ

SU, the home of the Thundering Herd, wraps up another year in sports and what a year it was for the Bison.

Some of the finest athletes in the country participated in sports here at SU.

A sports fan here at SU had to be pleased with the quality of competition integrity and true-grit that goes into making an outstanding athletic program like SU's.

It all started last fall with Don Morton and the football team. Morton's squad finished the year 10-3 and finished second in the nationals in NCAA Division II ball losing to Southwest Texas State coached by former Bison coach Jim Wacker.

Volleyball finishing with a 41-11 record provided excitement for the Bison fans. SU's volleyball team finished first in the North Central Conference, second in the regionals and participated in the national tournament.

The women's cross country team had a respectable year finishing second in conference, third in the regionals and they also competed in nationals.

And what can be said about Amy

Ruley's basketball team? In essence there really isn't too much to say except that they had one heck of a year.

SU's female hoopsters finished the year 22-10 finishing second in the conference and second in regionals. A fourth place national finish polished off the season.

SU's swimming teams, manned by Paul Kloster, had a rather wet season. Kloster's women finished third in the conference and his men finished fifth.

SU's gymnastic team finished third in the conference in its final season as a varsity sport here at SU.

Rick Nikunen's women's tennis team finished with a record of 5-8 and Guy Kimball's men finished at 5-12.

Men's basketball was big, as always, and Erv Inniger's roundballers compiled an 18-11 record. The team finished third in the conference but played UND in the final game of the conference tournament losing up at Grand Forks, N.D.

The wrestlers did an outstanding job this year with Buckey Maughan leading the trail. SU's grapplers finished first in the NCC and second in NCAA Division II.

Mike Langlais became the national champion at 142 to polish off his year. Langlais is only a sophomore and fortunately he'll be back.

Kathy Fredrickson's softball team finished fourth in the conference with a 14-11 record. The softball team was undefeated in its first few games and the season went really well.

The women's track team finished fourth in the conference and sent four runners to nationals. Deb Bergerson, Suzette Emerson, Laura Gibson and Kathy Kelly, I salute you and wish you the best of luck. You deserve it.

The men's track team finished third in the conference. Three javelin throwers have qualified for nationals: Mark Swanson, Todd Murdock and Geg Kostuch. They finished first, second, and third, respectively, in the conference.

Two more members of the men's team have qualified for nationals in 1,500-meter runner Rob Carney and decathlete Tom Leutz.

I couldn't really figure out the baseball team. The team finished with a 9-34 record which really sounds lousy.

Well, the record itself may have been lousy but there was more talent on that team than SU's had in a long time. It's too bad the record wasn't better; they deserved it.

To top everything off SU received the all sports award for placing the most teams in the highest position in the conference standings. In other words, SU was the school with the best athletic program for this scholastic year.

A lot of credit should go to guys like Ade Sponberg. He has really done an exceptional job as athletic director.

I've really enjoyed covering SU's athletics this year. I wish I had more sports reporters to cover more athletic events or at least give some more or better coverage.

I'm not apologizing or anything like that, it's just that I can't be everywhere at once.

I want to express thanks to the people at Sports Information, George Ellis, Anne Abicht and Jeannie Magdefrau for their help in giving me information such as statistics and press releases.

The list is endless and I could go on all day, so I won't. Thanks again folks.

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Leutz runs, jumps, throws for only one event

By Kim Unruh

Tom Leutz didn't need much coaxing from SU track coach Don Larson when deciding to be in decathlons.

Leutz had thought about being in decathlons when he was still in high school. But he started to think more seriously about it when the college coach came around recruiting people for the team.

Leutz, a freshman from Hebron, N.D., is a pre-med major. He is also the only member of the SU track team who is in decathlons.

When he was still in high school Leutz competed primarily in running events plus the long and high jump.

He was a member of the small 12-member track team.

"Our facilities there (in Hebron) went from bad to worse conditions, but the coach we had was a great coach," Leutz said.

"Our track was a staked out dirt track around our football field that was full of ruts. And we ran around our school on the street."

In spite of the poor conditions, the team captured state Class B indoor track titles in 1980 and 1981. They also won the state Class B outdoor title in 1981.

The year Hebron won its first state indoor title was the first time the team had seen the New Field House.

"I was a junior, and the first time we saw the field house we were just in awe. We didn't think something like this could ever be built," Leutz



Tom Leutz

said.

Now he works out in the field house three and a half hours a day.

Leutz works on events he did in high school plus the javelin, discus, shot put and pole vault.

"The event that I need the least work in is probably my high jump. My jump is six-seven and a quarter. It's a long ways," Leutz said.

At 6'3", Leutz manages to out jump his height.

"When I was in high school I could never jump higher than I was. Right now when I run up to the bar, all I think about is being on the other side. With the bar still on the standards, it's just a mental thing you've got to get over," Leutz said.

A big part of doing well in the decathlon is self-confidence.

In his last decathlon, Leutz said he needed a good throw in the discus to get ahead of an athlete from Northern Colorado.

"As I went into the circle, I said, 'This is it. I just got to throw that sucker out there.' And sure enough I cranked one out there about 110 feet, which was about six feet better than his," Leutz said.

At the decathlon, five events are held one day and the other five the following day.

The athletes may be uptight and excited because of the competition.

"After the first event, which is the 100-meter dash, it's pretty much relax," Leutz said.

"At the end of the second day is the 1500-meter run. That is the worst thing to look forward to because usually you're in a race for a place. After that it is just a feeling of relief to think you've made it through a decathlon," Leutz said.

While at the decathlon, one meets a lot of upper classmen who help younger athletes out in the events, according to Leutz.

"In the open decathlon I'm pro-

bably the younger"

Because of the help he's received at decathlons, Leutz has improved in his events.

"Every time I've gone to a decathlon, I've scored more and more points," Leutz said.

In the decathlon, points are earned on the basis of speed, length of throws and distance of jumps.

"There is an endless amount of points a person can score, depending on how good you are. Bruce Jenner scored 8,200. I'm looking at 7,000 right now," Leutz said.

Should Leutz earn this many points, he would qualify for national competition in Sacramento, Calif., starting May 25.

A decathlete needs 6,950 points in hand-held times or 6,350 points in fully automatic timing to qualify for nationals.

So far, in the North Central Conference two athletes have qualified for national competition, Greg Hadenluch from South Dakota and Brian Wolff from Augustana.

"Hopefully at the next meet in Mankato, I'll have a chance to make it to the national decathlon meet," Leutz said.

SU tops NCC in points to capture all sports award

SU claimed top honors in the North Central Conference men's all sports award.

The Bison compiled 140 points to edge out runner-up Northern Colorado with 137 and South Dakota State with 136.

It's the first time in more than a decade that the Bison have won the award.

SDSU has won the award for the past three years and the award has been around for 12 years.

The Bison won the initial award for the year 1970-71 and up until now haven't had the honor of

repeating the feat.

The award is based on a point system with the winner of each respective sport receiving 20 points. A second place finish is worth 18 and so on.

The Bison capped first place finishes in two sports, football and wrestling.

UNC took three first place finishes this year, both the outdoor and indoor track titles and the tennis title.

Other NCC champions were Mankato State in cross country and baseball, UND in golf and basketball and St. Cloud State in swimming.

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SU soccer players nab tournament victory

By Kevin Christ

SU's soccer club hosted a tournament here at Dacotah Field last weekend.

SU captured first place in the five-team, double-elimination tournament defeating the F-M Rowdies 4-1 in the championship game.

In first round action SU defeated Kurdistan 4-3 and tied in the next match with the Rowdies 2-2.

A win was worth three points and a tie was worth one. Kurdistan was also defeated by MSU eliminating the team from the tournament.

SU defeated Wahpeton Science 3-1 in semi-final action. Science lost in the first round to MSU 3-1 but bounced back in the consolation bracket tying the Rowdies 3-3.

The other semi-final game between MSU and the Rowdies resulted in MSU getting ejected from the tournament.

A few of the MSU players were upset with a call one of the officials made. The angered MSU players attacked the referee and tournament manager Frank Khaw ejected the team giving the victory to the Rowdies. The Rowdies were ahead 2-0 when the incident occurred.

In the championship game SU's Sean Ray scored SU's first two goals. Shawn Foroughi netted another goal for SU and Wessel Adasani capped SU's fourth and final goal.

Adasani was named the tournament most valuable player for his efforts throughout the entire tourney.

SU's coach Badea Alrashedy said the level of competition was high.

"This is the first time all the teams were strong," he said. "Everybody played well."

Alrashedy hopes soccer can be sanctioned as a varsity sport at SU sometime in the near future.

"Soccer is a demanding sport in this area but it's not expensive," he



ABOVE: SU's Sean Ray (left) defends as John Doussent of the Kurdistan team brings the ball downfield. SU defeated the Kurdistan team 4-3. BELOW: SU Soccer Club player/coach Badea Alrashedy (right) gains position and steals the ball away from Jeff Leiman of Kurdistan.

Photos by Roger Whaley

said. "If the athletic department would look at soccer seriously we could maybe become a varsity team."

Alrashedy said the team is good and that they work hard but says the players don't feel committed.

"If it was a varsity sport there would be more commitment," he said. "Some of the players just don't feel they're playing for anything special."

Alrashedy said the athletic department was a big help in getting the tournament set up.

"Ade Sponberg, Merle Johnsen and Tim Budda deserve a lot of credit," Alrashedy said.

The tournament was sponsored by Coca-Cola and food for all the teams was provided by area restaurants.



It takes a lot more than hot air to go up, up and away

By Joy Melby

Dirt and grass are dumped in your hair, the pilot says an old Irish prayer, and then champagne is poured over your head. This ritual is known to a hot air balloonist as christening.

Ballooning is a light-hearted sport done only in nice weather. "Balloonists pay very careful attention to the weather," said Tom Verzba, balloonist.

Balloonists will also check with the weather bureau about weather conditions Verzba added.

"You do nothing contrary to nature," he said. "You never takeoff knowing where you will end up."

Sunrise and late afternoons are the best times to fly. Winds reach their peaks around 4 p.m. and then diminish says Verzba.

Ballooning is a year-round sport. When the temperature is zero, long-johns and a ski jacket are worn.

The balloon travels with the wind so there is no wind chill, and heat put into the balloon comes back down. Eventually extra clothing will be removed Verzba says.

Flying over Detroit Lakes, landing in the water and letting the wind drift the balloon across the lake is a flight Verzba enjoys.

Verzba says ballooning is a safe sport. The only deaths he knows of have resulted in balloons flying into

power lines.

"Fargo, as an area, is a good place to fly in," he said. "There are not many hazards except maybe power lines."

"At 500 feet you can carry on a conversation with someone on the ground because of no sound barriers," Verzba said. "You have never heard so many dogs as when flying over the city."

The hot air balloon was invented in France by the Montgolfier brothers. They got the idea while noticing paper bags filled with hot air would float.

The first balloon was launched unmanned in 1793. Its passengers were a chicken, a rooster and a sheep. The flight was successful.

Later on in the year, in Paris, 175,000 people watched the take-off of the first manned balloon. However these people did not see the balloon land.

The balloon landed in the country, covering the passengers and the balloon with soot.

Farmers who knew nothing about the balloon saw it land. Thinking the passengers were from the devil, they attempted to attack the balloon.

Balloonists began to carry champagne which they offered to land-downers upon landing. The reason for carrying champagne was that the devil would not have such a lux-

ury. This tradition is still carried on today.

Verzba, a sales executive for The Land Office Co., has his own balloon. The design on the balloon was self-created.

The design represents the green earth, black horizon, red sun, golden rainbow and blue sky. "The Land Office Co." is written across the balloon.

The basket is made out of wicker and the balloon itself is called the envelope and is made of ripstock nylon.

Balloons come in different sizes from 1-14. The Land Office balloon is a size seven. It is 53 feet high and 114 feet around and will hold up to four people.

Balloons also come in different shapes. Levi Strauss has a balloon shaped as a pair of denim blue jeans. Verzba says a balloon like that could be dangerous because there is a possibility of winds pulling at one leg and causing a tear in the balloon.

To operate a hot air balloon first a fan blows air into the envelope. When the envelope is half inflated the burner is started and the air is heated until the balloon lifts.

The burner and a maneuvering vent allow the balloonist to control its altitude.

The wind determines the direction

the balloon will fly in. However, the balloonist has some control of the direction because wind direction will vary slightly at different altitudes.

"Rallies are filled with a lot of good-natured kidding and crazies," Verzba said.

Balloonists come to compete with one another, but really they are competing against Mother Nature Verzba says.

At some rallies a pole is placed in a certain spot with a set of car keys on it. The balloonist who approaches the pole correctly and grabs the keys wins a car says Verzba.

Kissing occurs when two balloons run into each other. No damage is done because the balloons will bounce off each other.

Verzba is planning a balloon rally this August in Fargo.

Fargo Adult Education offered an eight hour course in hot air ballooning which Verzba taught.

"The course was designed to acquaint people with ballooning," Verzba said.

Verzba found the course difficult to teach because a person should fly to get the total concept.

Verzba prefers to fly for fun, but suggests pilots get a commercial license because the demand for balloons is big.