

Military Ball
At
9:00 Tonight

33 NDAC Students Complete Work For Degrees During 1951 Fall Quarter

NDAC will award eight master of science degrees and 25 bachelor of science degrees to students who have completed work during the fall quarter. No mid-year commencement exercises will be held, so students will be awarded their degrees at the spring exercises.

Seven graduate students completed their master of science in the school of chemical technology: Eldon Lyle Christensen of Fargo, Ronald Lee Fredrickson of Fargo, Donald Christian Frokjar of Nashua, Minn., Edward William Juntti of Harney, Minn., Ivan Kenneth Kressin of Eaton, Ohio, Walter Blair Smallwood of Minot, and Rolf Eugene Stumley of Brookings, S. D.

One graduate student completed the master of science in education: Sivert Jordahl of Fargo. Bachelor of science degrees will be granted to:

SCHOOL OF AGRICULTURE: Daryl Viggo Anderson of Reeder, Walfred Paul Browning of Drake, William Maurice Dobson of Bigfork, Minn., Thoris Adolph Huso of Aneta, Luther Burbank Kristjanson of Fargo, Morris William Montgomery of Fargo, Robert Dean Morrison of Neche, Orville Ingerbright Overboe of Hillsboro, and Gerald James Stangler of Lucca.

SCHOOL OF APPLIED ARTS AND SCIENCES: Rolf Otis Varland and Robert Anthony Vogel, both of Fargo.

SCHOOL OF ENGINEERING: Agriculture—Leo Clarence Benz of Dunn Center. Architectural—Bernard John Kraker of Duluth, Minn., and Thomas Langley Krenelka of Kenmare. Civil—John William Hartman of Washburn, Robert Emmett O'Neill of Fessenden, and Douglas Lee Schwichtenberg of Bismarck.

Electrical—Eivind Horvik of Bergen, Norway, and Gerald Obern Olson of Brootet. Mechanical—Robert Frederick Brun of Enderlin, Gordon Dewey Christian of Fargo, Eugene Edward Dwyer of Fargo, John Baptist Keltgen, Jr. of Fargo, and Richard Gabe of Taylor.

SCHOOL OF HOME ECONOMICS: Beverly Ann Greenhalgh of Minot.

Choir Making Tour To Dakota Towns

The North Dakota Agricultural College choir under the direction of Ernest Van Vlissingen, professor of music and department head, will make a concert tour of five North Dakota towns Feb. 12 to 14.

The first concert will be presented at Grafton on the evening of Feb. 12; Lakota on the afternoon of Feb. 13 and Cando that evening; Leeds on the afternoon of Feb. 14 and Rugby that evening.

Approximately 55 vocalists will make the trip in chartered buses. Van Vlissingen and Robert J. Dietz of the music department will travel with the group.

Each concert will be presented in two parts with the first part featuring old and new classical music from Bach to Randall Thompson. The latter part will be songs from the light opera, "Pinafore," by Gilbert and Sullivan. Dietz also will play several compositions by George Gershwin.

High scholarship marks the personnel of the NDAC choir. NDAC records show that the grade average of the group is 1.88 which is above the all-college average.

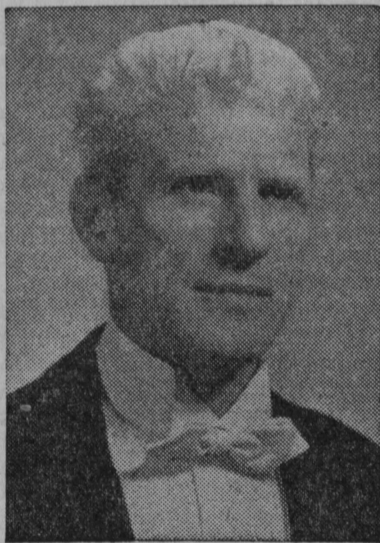
'Y' Marriage Panel Set For Wednesday

"Prerequisites for Marriage", a panel sponsored by the YM-YW, will be held in the auditorium of the YMCA building Jan. 23. The meeting begins at 7:00 on Wednesday evening.

Experts in different fields will speak on important considerations of marriage. Students may write down any questions they have on the speeches during the meeting. These questions will be collected and answered by the speakers in a discussion period.

Dr. G. E. Giesecke, head of the School of Arts and Sciences, will moderate the panel. Mrs. Melvin Strauss will talk about the psychological aspects of marriage. Medical considerations will be discussed by Dr. John S. Gillan. The religious side of the topic will be handled by Dr. C Maxwell Brown.

St. Olaf Choir To Sing At AC Toastmasters Have Annual Banquet Next Wednesday



Olaf C. Christiansen

The St. Olaf Choir under the direction of Olaf C. Christiansen will present a concert at the NDAC Fieldhouse tomorrow night at 8 p. m. The choir, founded in 1903, has toured America for more than 30 years. Twice it has toured Europe.

Thirteen states are represented among the 59 members of the group. These include 33 from Minnesota, 6 from Wisconsin, 3 from Iowa, Illinois and Pennsylvania, 2 each from South Dakota, Colorado and North Dakota, and 1 each from Ohio, Nebraska, Canada, Oregon and New Jersey.

Olaf C. Christiansen is the son of F. Meliue Christiansen, founder and long time director of the choir. A graduate of St. Olaf, he obtained the degree of Master of Sacred Music from Union Theological Seminary.

In 1941 he came to St. Olaf from the faculty of Oberline Conservatory of Music. After working with his father, he became sole director of the choir in 1943.

The choir's appearance in Fargo is sponsored by First Lutheran Church Brotherhood. Tickets and reservations may be secured through Fargo Toggery and First Lutheran Church.

Prices of tickets are reserved seats, \$1.75; reserved section, \$1.25; general admission, \$1.00; and students, \$.75

The AC Toastmasters club will celebrate their thrid anniversary with a banquet at Ceres hall next Wednesday, January 23. Ordinarily reserved for male students only, this meeting will be open to either female or male guests.

The AC Toastmaster club was born in the Powers hotel where a group of NDAC students gathered for their Sunday meal. Vic Leglar, '50 graduate, was the instigator and first president of the club.

Through his efforts the organization grew to include a cross-section of college interests. At present the club has 17 active members representing nearly all campus groups and departments of study. The weekly program is arranged so that each member is provided an opportunity to speak before a critical, but sympathetic, audience.

The club is closely associated with Toastmasters International. With its home office in Santa Ana, California, and chapters throughout the world, Toastmasters International supplies the local group with materials and a program of self-improvement.

Students wishing to attend the banquet should make reservations with Wayne Waldera or Darrel Bjornson.

Sophomore Joan Hutter To Reign As Military Ball Queen Tonight

★ ★ ★ ★ ★
Her Royal Highness . . .



Joan Hutter

Joan Hutter, a sophomore in home economics, will reign as Queen of the Military ball tonight at the fieldhouse. Miss Hutter, sponsored by Alpha Tau Omega fraternity, is a member of Kappa Kappa Gamma.

The Queen's attendants and their sponsors are Babaranel McMurray, HE, So, Sigma Phi Delta; Virginia Arneson, AAS, Sr, Theta Chi; Dorretta Carroll, AAS, So, Alpha Gamma Rho; Paula Swain, Ph, Jr, Sigma Chi; Mary Ann Pietron, HE, So, Kappa Sigma Chi; and Shirley Shepard, AAS, Jr, Sigma Alpha Epsilon.

Also in the coronation party will be La Vonne Sommers, president of Guidon, auxiliary to Scabbard and Blade, and Marilyn Hunter, president of Air Debs, auxiliary to the Arnold Air Society.

Queen Joan, her attendants, and auxiliary presidents will be escorted into the ball by men of the Pershing Rifles and Arnold Air Society while an honor guard from the AFROTC drill team gives the Queen Anne salute. The coronation party will leave the ball through an arch of sabers held by men from the army ROTC unit and the Scabbard and Blade military fraternity.

Master of Ceremonies will be Kenneth Ward, president of Arnold Air Society. General chairman for the ball is Kenneth Ketchner, AAS, Jr. Other chairmen include:

Robert Greuel, AgE, Sr, finance chairman; Arthur O'Connell, Arch E, Sr, decoration chairman; Byron Lawrence, Ag, Sr, ticket chairman; Ray Curtis, AAS, Jr, concessions; Edward Sveinson, AAS, Sr, David Robinson, ME, Sr, furniture arrangements, and Donley Eylofson, AgE, Jr, custodial work.

Guests invited to the ball include: Major Gen. Harry A. Johnson, commander of the Tenth Air Force; Major Gen. A. C. Smith, commander of the Fifth Army; North Dakota Governor C. Norman Williamsdale; North Dakota Senator William Langer, North Dakota Senator Milton Young; Brigadier Gen. Hubert L. Edwards, state Adjutant General; and NDAC President Fred S. Hultz, together with other state, military, college, and local officials.

Exhibits Showing

Fourteen student textile exhibits will be shown at the library until Feb. 15. The exhibits come from a New York museum. They are composed of short lengths of textiles featuring damasks, brocatelles, brocades and armues.

"The Influence of the French Baroque in Textile Design", the exhibit coming here, shows the sumptuous silk textiles of the Louis XIV period. Designs range from the influence of the late Italian Renaissance to the gradually developed original French patterns. The accents are on the symmetrical arrangement of the designs.

Pye Says Lignite Will Convert North Dakota

That lignite will provide the cornerstone for conversion of North Dakota from an agricultural to an industrial economy is the prediction made by Dr. Willard D. Pye, chairman of the geology department at NDAC.

"Although North Dakota's oil appears to be the immediate source of new wealth, we cannot yet eval-

uate the petroleum industry here," said Dr. Pye. "Speaking as a geologist, I see lignite as the long range resource of the state."

He based his prediction on an estimate that there is enough lignite in North Dakota to keep the entire nation in abundant fuel for generations, if research can find an economical way to remove water and reduce lignite to liquid fuel.

NDAC economists point out that industrialization of the state will create a demand for trained personnel. In the past, many college trained technicians have left the state to get jobs which were lacking here. When North Dakota changes from an agricultural to an industrial state, these graduates will be needed at home.

Other North Dakota mineral resources named by Dr. Pye include clay, bentonite, cement, sodium sulphate, fertilizer, sand gravel, sandstone, clinker beds, manganese, gypsum, fuller's earth, hematite, gold, silver and copper. Many of these are not present in commercial quantities. Mining might recover the last three.

North Dakota clay may also provide aluminum through eliminating the clay silica and leaving only the aluminum compound which is contained in clay, said Dr. Pye. At present, the main ingredient of aluminum is bauxite which is imported from Yugoslavia.

AC Graduate Earns Distinguished Cross For Korean Service

An NDAC graduate of 1948, Robert G. Schmitt of Sykeston, has been posthumously awarded the Distinguished Service Cross for extraordinary heroism in Korea. A first lieutenant in the infantry, he was mortally wounded while leading an attack near the Chosin Reservoir on Dec. 1, 1950.

According to the official citation, his regiment was assigned the mission of effecting a withdrawal and attempting a juncture with the First Marine Division. Lieutenant Schmitt, who had previously sustained a severe leg injury, was riding with the other wounded.

After proceeding for several miles, the convoy was ambushed and fired upon from the surrounding hills. Lieutenant Schmitt, although suffering greatly from his wound, left his vehicle to rally an assault. Giving his gun to an unarmed man and using a stick for a crutch, he struggled forward and the men followed him.

Lieutenant Schmitt led the assault until struck down by a machine gun bullet. Refusing medical treatment, he urged the men to press the assault. Inspired by his display of valor, his soldiers charged with such ferocity that the enemy was routed from the hill.

"Lieutenant Schmitt's unflinching courage and consummate devotion to duty reflect lasting glory on himself and are in keeping with the noble traditions of the military service," concludes the citation.

Engineers Write

The North Dakota State Engineer has gone to press and will appear on the news stand at the Engineering building soon. Motto of the magazine is, "If you can't be an Engineer—buy one."

Institute Preserves Original AC Song

One of the few remaining original copies of the "Yellow and Green," NDAC song, has been presented to the North Dakota Institute of Regional Studies by Ruby M. Grimes, associate professor of mathematics at NDAC.

The "Yellow and Green" was originally published as a sheet music supplement to the *Spectrum* in the issue of Dec. 17, 1912. The words of the song were written by the late Dean A. E. Minard, one-time head of arts and sciences, with music by the late Dr. Clarence S. Putnam famed NDAC bandmaster. Pictures of both men are on the original sheet music.

Professor Grimes said she ran across the rare old sheet of music in a second-hand store. In order that it might be preserved for history, she gave it to the institute which maintains a research center at NDAC.

St. Olaf Choir Members . . .



Three members of the St. Olaf Choir are pictured above. These students represent a wide geographical range, for Mr. Rolf Charlston, comes from Portland, Oregon, Miss Mariette Sedlock from Northfield, New Jersey and Mr. Gordon Hafso from Viking, Alberta, Canada.

Bowl Classic Wednesday Stars Beauties, Beasts

FLASH . . . The Battering Beauties of ATO fraternity have just returned from an extensive tour in the Southern Conference during which they annihilated their opponents in the Finger Bowl, Soup Bowl, Punch Bowl and other Bowls too numerous to mention. Only one major contest remains this season. It promises to be the toughest battle in their strenuous tour, according to team captain Bob Nenninger. We are of course referring to that classic clash of International fame, far overshadowing the famous Rose Bowl skirmishes, when the Gamma Phi Beta Beasts tangle with the Battering Beauties of Alpha Tau Omega at the Bronco Bowl (otherwise known as the Dacotah Field Stadium).

On Wednesday at 4 p. m., January 23, the Beauties will be out to avenge the disastrous defeat of last year when in the fifth annual Bromo Bowl contest, the Beasts smooched, tricked, battered their way through the ATO fizzle to a 6-0 victory. Bob Nenninger says he has a perfect defense lined up to thwart the Beast's famous "tea formation" which was so instrumental in the Beauties defeat of last year.

The ATO advance reconnaissance committee reports that the Beasts have been undergoing rigorous training in preparation for the contest. In fact, we are informed that the Gamma Phi house is a veritable gymnasium. Bar-bells, boxing gloves, parallel

bars and judo books have replaced conventional furniture and the coffee hours have been converted to periods devoted to the arts of self-defense.

As conclusive evidence, the ATO reconnaissance unit has managed to infiltrate the enemy's position

and emerge with a picture showing Lois (Stewed) Stewart gracefully heaving Wanda (I Wanna!) Allen over her left shoulder. This would or should give any Beauty the pregame jitters.

The Beauties will perhaps be able to draw some moral support from their coach, whose name is being withheld for security reasons, since he is familiar with the forms, shapes, and contours of the opponents lines. This coach reports that his bevy of Beauties has built up their stamina and preserved their strength through extensive use of various vitamins, potions and elixirs such as Hadacol, Alcohol, and Dakota Hall.

Even with this advantage the Beauties will experience a tenacious foe bent on continuing their success of the past season. The Beasts are well known for their fine shapes, precise movements, extensive use of camouflage and diversionary tactics.

The Beasts' line-up according to their coach Don Meyers includes: Wanda (I Wanna) Allen, Barbara (Bobbing) Arneson, Arlyss (Musclehead) Elliot, Janice (Juicy) Hamilton, Connie (Cocktail) Hogan, (alias Hogan's Goat), Patti (Cake) Jones.

Beverly (Sourkraut) Kraus, Joan (Melonhead) Marquart, Francine (Mattress) Simons, Mary (Had A Little Lamb) Wright, Joyce (The Jolter) Rutherford, Lois (Stewed) Stewart, Wardel (Gamma Ray) Wray, Janice (Double Dynamite) Peltier, Dorothy (To) Morrow, and (Old) Gloriann Erickson.

The Beauties' coach says he may have to throw in his entire team to hold the Beasts' line. His team includes: Bob (Amorous) Anderson, Chuck (Wood) Brown, William (Butter Fingers) Brown, Jim (Bubbles) Brudvik, Dick (Ice) Berg, Duane (Fragile) Foss, Maurice (Gushy) Gagnon, Paul (Garter) Gorder, Ray (Hotlips) Harchanko.

Jack (Muscles) Hardy, Dave (Honey) Honnold, Ray (Long) Horne, Roger (Hearthrug) Huizenga, Vernon (Juggernaut) Jeannotte, Charon (Jewel) Johnson, Barry (Head) Johnson, Paul (Cuddles) Kretchman, Rodney (Lucious) Lucier, Richard (Moonshine) Malmo, John (Mushy) Maskie, Robert (Mitzi) Mutchler, Jack (Belly Button) Nagel.

Richard (Half) Nelson, Robert (Full) Nelson, Robert (Desire) Nenninger, Gordon (Ole) Olson, Dave (Parallel) Parker, Julian (Pussy-foot) Polsfut, Jim (Peaches) Peterson, Jack (Romeo) Rasmuson, Jack (One Dozen) Rosenberg, Are (Richechet) Rulon, Ronald (Smoochy) Skogsted, Bud (Dealer) Wheeler, Don (Zinnia) Zimmerman, Scotty (Passionate) Peterson, Sam (High) Lowe, John (Hips) Heinemeyer, and Ray (Limber) Linnertz.

Mac Wenskunas and Bernie Krueger will be the officials for the game and will probably be assisted (whether they like it or not) by that authority on oblate spheroids, Bob (Skinhead) Fisher.

An overflow crowd is expected to turn out for the game, however we have been assured by the engineering department, that the stands will support the additional load. So if you want a fifty-yard line seat, be there at least an hour early.



Don Meyers, coach of the Gamma Phi Beta Beasts points out the fundamentals of the game in preparation for the Bromo Bowl. Joanne Marquart is seated. Standing are Connie Hogan, Bev Kraus, and Lois Stewart.

Turkish Minister Visits AC Campus To Recruit Agricultural Specialists

Dr. Elmer A. Starch, advisor to the Turkish minister of Agriculture, recently visited the NDAC campus. Dr. Starch was former head of the Great Plains Council which is made up of agricultural

agencies in the Midwest.

Dr. Starch, who was in this area to recruit agricultural specialists for work in Turkey, spoke at the agricultural economics seminar on Thursday, Jan. 10. In his talk, he reviewed Turkish history which dates back to 4500 B. C., the great progress made toward modernization, and the closer ties which are developing between Turkey and America.

Turkey wants to emulate our educational system, our agricultural methods and our culture. Dr. Starch believes that a closer association between the two countries has great value in the fight against communism. Turkey is second in size only to Soviet Russia in that part of the world.

"But although Turkey has remained static for thousands of years, it is now awake and is changing from a backward to a progressive nation, pointed out Dr. Starch. "We must continue to encourage that trend and make Turkey our ally."

AC Sorority Officers To Conduct Workshops

Workshops are being set up for sorority officers by the Panhellenic Council. The purpose of the workshops is to discuss problems, gain new ideas and inform Panhellenic of any matters vital to the entire Greek sorority body.

Chairman of the rushing workshop is Loretta Brown, GPB. Mrs. C. W. Glotzbach is the Alumni advisor. Betty Gordhammer, KAT, is chairman of the pledge trainer workshop. Alumni advisor is Miss Laura Dixon.

The treasurer's workshop is chaired by Barbara Lazenby, Phi Mu. Miss Marion Addison is acting as alumni advisor. Lois Daggett, AGD, serves as chairman of the president's workshop with Mrs. Doris Wishow advising.

Chairmaning the social workshop is Neysa Henderson, KD. Alumni Evelyn Snyder advises. For the Scholarship workshop Suzanne Minnis, KKG, will act as chairman. Miss Mathilda Thompson will be the Alumni advisor.

Schickele Joins Board

Dr. R. W. Schickele, chairman of the NDAC department of agricultural economics, has been named a new member of a state advisory committee for the Farmers Home Administration. The appointment was made by the national administrator in Washington, D. C.

Hultz Considers Problems NDAC Faces

Fred Hultz, president of NDAC, announces that NDAC faces several problems in 1952. The answers to these problems lie beyond our campus says Hultz. Here are the prob-



President Hultz

lems outlined by Hultz. Shrinking enrollment is one serious situation we face. Although NDAC is not threatened with a drop in enrollment that will hurt college operations, it is concerned with the shortage of teachers, scientists and other professional

people. In defense periods young people see only the immediate future and forsake school to take high wage paying jobs.

In emergencies the demand for farm produce is always great. NDAC must help greater production by keeping farmers informed of new efficiency developments. Appropriations are made so far in advance that they often do not meet the needs of the present.

All educational institutions must adjust to the decreased purchasing power of the dollar. With the same number of dollars to use as during the last year the alternative is to curtail services.

In some departments a cut in the staff is possible. In specialized departments this is not workable so the whole course would have to be depleted. These cuts mean a lowered standard.

People whom the college serves will have to think of a new set of dollar values rather than the number of dollars appropriated in previous years. If not, state colleges will not be able to give services expected of them.

"Our most heartening outlook for 1952 is the unqualified interest in NDAC which comes from every section of the state," concluded Hultz.

Society Backs Contest

Prizes of \$100 and \$50 are being offered by the Euthanasia Society of America for the best answers, not over 1,000 words sent by college students to the question: "Why should voluntary euthanasia for incurable sufferers be legalized?"

"Essays must be mailed to the Euthanasia Society, 139 East 57 Street, New York 22, N. Y., before March 1. On request the Society publications will be sent to all participants in the contest.

Home Ec Graduate Receives Carnegie Institute Position

A graduate of NDAC, Marion C. Benson, has been named associate professor of home economics education at Carnegie Institute of Technology.

Miss Benson earned a master of science degree from the University of Minnesota in 1943 She has pursued further advanced study at both Minnesota and George Williams College, Chicago.

After teaching home economics in high schools throughout North Dakota for nine years, Miss Benson served as district supervisor of home economics education in the Indiana State Department of Public Instruction.

Minot Man Offers Scholarship To AC

A \$200 scholarship for an advanced student in architectural design at NDAC has been established by George M. Bugenhagen, an architect of Minot, N. D., according to Knute A. Henning, NDAC chairman of architecture.

The scholarship will be awarded for two successive years in amounts of \$100 each with the first award to be made for the 1952 fall quarter. The student to receive the award must be in the junior or senior or fifth year of the architectural curriculum.

Applications for the scholarship may be directed to Professor Henning or to G. Ernst Giesecke, chairman of the NDAC scholarship committee.

Klundt Writes Of England

The centuries-old cathedrals and gardens of England are truly beautiful to American eyes, writes Waldemore Klundt, 1951 NDAC graduate who is studying in England under a Fulbright scholarship.

Klundt is located at University College of the South-West in Exeter, an English cathedral city which is some 1900 years old. The town was heavily bombed during the last war, he writes, but has been largely restored. The old cathedral, built during the Elizabeth era, was undamaged.

"The school has about 1,000 students with many from other countries," says Klundt. "There are Egyptians, Danes, Americans and various other nationalities so the school has a cosmopolitan flavor."

The son of Mr. and Mrs. Henry Klundt of New Salem, Klundt chose England for his foreign study because of his special interest in creative writing.



Waldemore Klundt

19 Undergrads Earn 3 Point Averages

FALL 1951		
General Institutional Average	(all students, all curricula)	1.45
	(all men)	1.38
	(all women)	1.64
General Average	(all regular undergraduates)	1.41
	(all men)	1.33
	(all women)	1.62

Average by Schools and Classes				
School	Fresh.	Soph.	Junior	Senior Average
Agriculture	.77	1.29	1.64	1.87
Applied Arts & Sciences	.99	1.59	1.55	1.59
Chemical Technology	1.51	1.45	1.46	1.51
Engineering	1.09	1.27	1.57	1.63
Home Economics	1.54	1.54	1.70	1.99
Pharmacy	.78	1.57	1.73	1.59
Average	1.05	1.44	1.62	1.71

HONOR ROLL (Regular under-graduate)			
Name	Class	School	Ave.
Arlo C. Beattie, Sr.	ArchE		3.00
Dorothy Biever, So.	Ph		3.00
Gayle Bromander, Fr.	EE		3.00
Beverly Widdifield Edam, Sr.	HE		3.00
Russell Ellingson, Jr.	CE		3.00
Gerald Erickson, Jr.	EE		3.00
John Gilmore, Jr.	CT		3.00
Phyllis Herigstad, Sr.	HE		3.00
Patricia Herr, Fr.	HE		3.00
Richard Hill, Fr.	AAS		3.00
Wallace Holmes, Jr.	Ag		3.00
Marilyn Hunter, Jr.	AAS		3.00
Joann Johnson, Jr.	HE		3.00
Adelbert Knevel, Sr.	Ph		3.00
Stanley Lokken, Jr.	CT		3.00
Delbert Moore, So.	Ag		3.00
Lloyd W. Peterson, Sr.	Ag		3.00
Robert Sahli, Jr.	Ph		3.00
Barbara Widdifield, Fr.	HE		3.00
Betty Lou Jorgenson, So.	HE		2.95
David Parker, So.	CT		2.95
Lois Daggett, Sr.	HE		2.94
Marilyn Meier, So.	HE		2.94
Dean Morford, Sr.	AAS		2.94
William P. Brown, So.	CE		2.94
Dwight Horen, So.	Ph		2.92
Jane Mary Haas, Fr.	AAS		2.88
Rudolph Schroeder, Sr.	CT		2.88
Nancy Smith, Jr.	HE		2.88
Donna Mae Coombs, So.	AAS		2.85
Byron Mitchell, Jr.	ME		2.85
Robert Van Wechel, Jr.	EE		2.85
Jerome E. Bakke, So.	ME		2.87
Raymond Allmaras, Sr.	Ag		2.84
Edward Bring, Sr.	Ph		2.84
Charles Flaa, Jr.	AAS		2.84

Student Organizations	
Senior Staff	2.76
Phi Kappa Phi	2.42
Pi Tau Sigma	2.33
Alpha Zeta	2.31
Rho Chi	2.31
Tau Beta Pi	2.26
Guidon	2.22
Kappa Epsilon	2.22
Phi Upsilon Omicron	2.22
Kappa Delta Pi	2.20
Panhellenic	2.19

Schober Addresses LSA Group Sunday

Eugene Schober will present his story of "My God and I" at the regular LSA meeting Sunday, January 20 at 5:30 p. m. Assisting him will be Evelyn Tuff, soloist, and Ardella Schober, pianist.

The program is made up of one hundred and twenty-eight slides, taken and correlated by Gene. Dialogue and musical background will include selected scripture readings. Taken in Colorado and North Dakota, the slides provide a nature setting for what Gene calls, "A personal Witness of what Christ has done for me."

Schober was hospitalized at the time he was to have left with the student contingent of the Ari Guar in 1950. He has since been undergoing treatment for cancer.

Thair To Speak Here

Phillip J. Thair will speak at the Agricultural Economics Seminar next Thursday, Jan. 24. His topic is "Crop Insurance and Weather Risk in the Great Plains". Students and staff members are invited to the meeting.

Brehmer's Barber Shop
Rental Library
has the following best sellers:
"Chosen Country" by Dos Passos
"And Ride the Tiger" by Wilder
"From Here to Eternity" by Jones

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Student Government Should Be Changed

Although the student commission offices are filled by means of a general student election, there is some doubt as to whether or not this is the best form of student government. For what is there to guarantee an efficient and conscientious administration after the election has taken place? Usually, a person elected as a member of the board of commissioners remains in that capacity throughout the school year. As a result, there is little or no contact made between a commissioner and the students who he supposedly represents the remainder of the year. There is no active contact such as debate of issues or decisions to be made. If the commissioners decide on some program or policy, are they right in assuming that they have the unanimous approval of the students they represent? The answer is obvious. They are not justified in making such an assumption. With these thoughts in mind we make the following suggestions for modifying the student government organization.

First, there should be a student assembly which meets one night a week to debate and discuss issues of vital concern to the whole student body. Every social organization on campus should have one representative at the assembly. Other students would be admitted if they submitted a petition signed by 50 students who wished to be represented at the assembly by such a student. The board of commissioners would join in the debate and bring up the issues with which they are confronted. After the discussion and debate had clearly formulated the issues in question, there would be a general vote on the policy to be followed. The board of commissioners would then carry out the policy as dictated by the majority.

Secondly, more posts of responsibility should be created—within the student assembly, such as the following:

1. An executive group composed of president, vice-president and secretary-treasurer.
2. A civil liberties chairman.
3. A supervisor of elections.
4. A comptroller in charge of all financial arrangements within the assembly.
5. A National Student Association representative to keep the assembly informed on the NSA activities throughout other schools and possible applications of their programs to our policies.
6. A publicity chairman.
7. A chairman of Student Faculty relations.
8. A Student—Needs chairman to report on badly needed improvements.

Besides the above, individuals could be appointed to supervise enterprises which should come under the student assemblies jurisdiction such as a book-exchange (for texts, fiction and non-fiction), or a purchase-card plan such as NSA has organized at other schools. It is only through a very active organization with the powers and representation that a student assembly would have that we can initiate a general improvement in student welfare.

The Spectrum would welcome opinions on these suggestions. Do you think the change feasible? Are there enough interested students on this campus to foment and carry through such a change? It is useless to attempt such a program? If yes, why? If no, why not? Address your letters to the editor right away and give us your reactions.

Dr. Helgeson Describes Life In Chile

by Dorothy Morrow

June in January, that's what Dr. Earl Helgeson, head of the NDAC Botanical Department, is experiencing in Santiago, Chile. In the icy cold of North Dakota it is difficult to imagine the flowering trees,



Dr. Helgeson

roses, sweet peas and calla lilies that Helgeson sees daily.

Dr. Helgeson is employed by the United Nations Food and Agricultural Organization to help rid Chile

'U' MEN CONDEMN COEDS

By means of a debate, students of the U of Toronto have come to the conclusion that coeds do not make good dates.

Said one debator: "Coeds are of two species, the sexless work animal and the workless sex animal. The first one is of no importance to us and the second comes only to the university to catch a man.

of a bramble bust infestation. This weed control specialist will stay in Chile until February 1952. The NDAC botany department recently received a letter from Dr. Helgeson describing his life and work in Chile.

Not only can we envy South American weather but also their food prices. Large juicy tenderloin steaks with French fries cost 65 cents. In some cases the foods are quite different but American food is common. In the words of Dr. Helgeson, "Coffee is black as coal and strong enough to float an egg."

The Helgeson family is sub-letting an apartment furnished with antique furniture and a maid. The maid speaks no English and the Helgesons no Spanish. Sign language is the means of expression with uncertain and at times humorous results says Helgeson.

Santiago is a mixture of modern concrete buildings and mud or birch structures dating from 1542 when the city was founded. Many well-kept squares and parks make up for the drab dress of the natives. The backdrop for this setting is the snow-capped Andes.

Traffic is perhaps the only discordant note in the picture. Cars, trucks, street cars, horse carts, oxen and man pushed vehicles all mingle together in a mad rush to somewhere.

The "El Mercurio," a Santiago newspaper, printed an article by Dr. Helgeson on the bramble bush problem. In the article Dr. Helgeson insists that the Chilean people have not realized the serious nature of the problem.

He tells them that nothing can be gained by measures based on hearsay and superstition. Dr. Helgeson also advocated a large scale educational program for the farm workers.

Metropolitan Opera Gives New Version Of 'Der Fledermaus'

by Dorothy Morrow

NDAC students have a real musical treat in store Jan. 31 when "Der Fledermaus" comes to the Field House. For one thing the German opera has been translated into English with amazing success.

In the next place the opera is being performed by the Metropolitan Opera association, one of the finest professional groups in the United States. The final selling feature is, of course, the original musical score by Johann Strauss.

Johann Strauss continued the fine musical tradition set by his father. As a composer and conductor he was the toast of Vienna as long as he lived. He wrote 500 dances, about 400 of them waltzes.

"The Bat" has a plot that should appeal to college students. It concerns a man who has beaten up a police officer, an "after-the-show party", a former lover who makes love to the hero's wife and a flirting husband.

Gabriel von Eisenstein, the husband, has beaten up a police officer and before surrendering himself is persuaded to attend a party. Rosalinda, Eisenstein's wife, is making love to her former lover when the party starts. The lover is then mistaken for Eisenstein and taken to jail.

Falke, the friend giving the party, lures Rosalinda to the affair where she sees her husband flirting with a ballerina and her maid. Falke wants to revenge Eisenstein for once mocking him. Rosalinda then dresses up as a Hungarian princess to entice her husband. This she does with out revealing her identity.

Before the guests leave, the governor of the jail comes and becomes friendly with Eisenstein. At the end of the party the case of mistaken identities is straightened out. All ends happily.

Social Spy . . .

ATO's Sigma Chi's Gain New Actives

by Lorrie Brown

Tonight's the big night when we all dig our best duds out of the moth balls and go to the biggest social event of the year, the Military Ball. Pre-parties, dancing, Post-parties . . . ah, ain't education wonderful?

New actives of ATO are Paul Vogel, Vern Reardon, Sam Kalainov, and Burt Hutton. New Sig actives are Jim Falck, Eric Flaten, Dick Hermanson, Al Kosir, Allen and Ken Meath, Milton Maier, and Vern Peterson. Congratulations fellows!

The lucky engaged people this week are Janice Skrei, KKG, to LeRoy Redman, Sigma Chi pledge, and Ralph Welken, Sig pledge, and Barbara Bowman from Bismarck, N. Dak.

Next Wednesday, the 23rd, the Kappa Sigma Chi's will entertain the Theta's from 5 to 8.

New Theta pledge is Ramona Chambers, who was pledged on January 14. New Alpha Gam pledges are Kathy Freeman and Marlys Christensen. Congratulations!

On January 1, Margaret Groethe, AGD and Jerry Stickelmeyer, ATO were married in Kindred, N. D.

Tomorrow night the St. Olaf Choir will give a concert in the Field House, so for you who are interested in really good choir music, that's the place for you!

See you at the big party tonight!

Letter to the Editor

Student Pleads For Mercy From Faculty

Dear Editor:

Why should teachers that have fifty minutes for their own class insist on depriving their students of ample time to get to their next class? These same teachers like to have their classes start on time but aren't considerate enough to let the student out when the bell rings but generally keep them at least five minutes or more.

Quite a few teachers take roll before the class bell rings or right after the bell rings. If the previous teacher has kept a student overtime and he is late to class he gets marked tardy. Tardiness is not the students fault if a teacher in Minard Hall keeps his pupil overtime and they have a class at the Field House the following period.

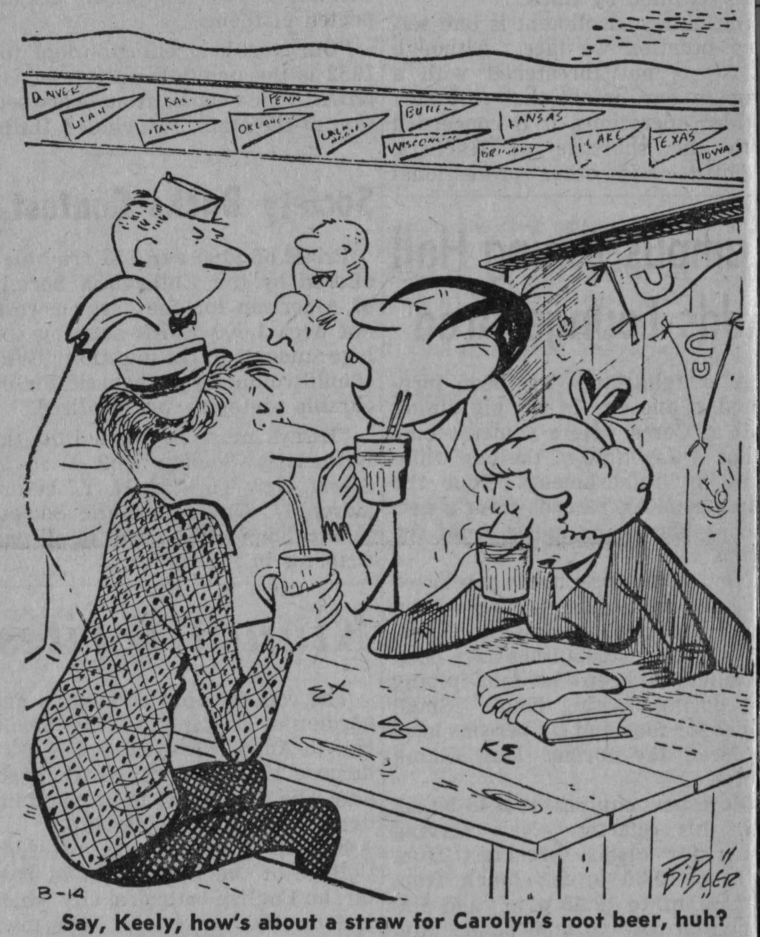
It takes about five minutes to walk from Minard Hall to the Field House and after donning heavy winter coats, boots, and scarves the ten minutes are almost gone under normal conditions. Need we plead with the staff to be more thoughtful? After all, they also were once under graduates and should be sympathetic with our cause.

Respectfully yours,
Elenor Mae Woodward

(Ed. Note—We hope to see more and more inconveniences such as these eliminated from our campus experience. There is very little sound logic in the arguments of those people who say that the roll call system cannot be liberalized at this school. If anyone has a good case against it, we have yet to hear it. The roll call system is really a hangover from the traditional British school system and is quite deginitely obsolete.)

LITTLE MEN ON CAMPUS

By Bible



Say, Keely, how's about a straw for Carolyn's root beer, huh?

Student Commission Minutes . . . Political Authority To Attend Meeting

January 15, 1952

The meeting was called to order by President Schnell. Bob Colton, Ginny Arneson, Wally Swenson were absent. Minutes of the previous meeting were read and approved.

Mary Fran Broderick and Ken Ward are to design a letterhead for Student Commission stationary which will be purchased by the Commission.

Discussion was held on constitution revision. Several ideas were presented: the holdover of commissioners each year on the Commission, the possibility of a Student Senate and Student Commission working in together, the Senate being the legislative body and the Commission the executive, and several others were proposed. On January 23, government authority on politics will attend the meeting and offer suggestions. One general plan of government will be decided upon and the constitution will be revised accordingly.

Motion to adjourn made by Bob Ouradnik, 2nd by Ed Boerth and carried. Meeting adjourned.

Respectfully submitted
Kaye Bayley
Secretary

THE SPECTRUM

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Circulation Manager	Jim Anders
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Photographer	Walter Junk
Proof Reader	Beverly Wood

California Gives Engineer Job Exams

Permanent positions with the California state government are offered civil engineering seniors at NDAC according to the California State Personnel Board. Applications must be filed by February 2.

A civil service examination will be held March 1 to qualify 1952 graduates for Junior Civil Engineer. Facilities have been set up to give the examination on or near the campus.

An expanding highway program and other public works in California have created a heavy demand for young civil engineers and prompt offers of employment may be expected by those who qualify, the personnel board said. Civil

engineering students graduating in the winter class may apply for immediate employment on a temporary basis without waiting for the examination. Such students should attach a letter to this effect to their applications, and may specify in what part of California they prefer to work.

The Junior Civil Engineer class in California starts at \$325 a month and there are annual increases up to \$376. Capable men, however, advance to more highly paid positions by promotional examinations.

Seniors may qualify for the California positions while still on the campus, but must submit evidence of graduation or its equivalent before actual appointment. Descriptions of the examination and application forms are available from the campus placement officer or the State Personnel Board, Sacramento 14, California.

Five students were recently dismissed from Washington University for breaking into a professor's office and stealing examinations.

AUP Sets Meeting

The NDAC chapter of the American Association of University Presidents will consider an academic freedom resolution at their next meeting. The meeting will be held next Wednesday, Jan. 23, in the student lounge of the library at 5 p. m.

Pop Vender Money To Provide Awards

Proceeds from the soft drink vending machine in Minard hall will be used for scholarship purposes. This decision was made by the faculty of the School of Arts and Sciences at their December meeting.

As soon as the fund is large enough to permit, details will be announced in the Spectrum. Actual awards of these scholarships will be made by the North Dakota Institute for Regional Studies.

The Institute desires to interest students in studying the resources of North Dakota and the northern plains region and the cultures which these resources have supported.

Methodists Meet

Wesley Foundation will meet Sunday, January 20, at 5:30 p. m. in their rooms at the college "Y". Warren DeKray is the speaker, discussing more on the topic of Corinthians. Supper will be served.

Civil Service Offers Job Examinations

The U. S. Civil Service Commission has announced an examination for filling cartographer and cartographic aid positions at salaries ranging from \$2,200 to \$7,600 a year, and for cartographic draftsman positions paying from \$2,200 to \$3,825 a year. The positions are located in Washington, D. C., and vicinity. A few field-service-at-large positions will also be filled.

Applicants will not be required to take a written test but they must have had from 3 months to 8

years (depending on the kind and grade of position) of appropriate experience. Appropriate education may be substituted for all of the required experience for positions paying up to \$3,100, and for part of the experience required for the higher-level positions. For cartographic draftsman positions, applicants must submit with their application a sample of their work.

Applications will be accepted in the Commission's office in Washington until further notice.

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ON THE SUNNY SIDE?

by Bob Fisher

At last it looks like NDAC is the team to beat in the North Central Conference. Every other team has at least one defeat, but the Herd has a strong grip on the top rung in the conference race with an unblemished record.

The wins last week over the last years co-champions gives the Bison a lot of prestige. Despite a lot of unfavorable comments, the Bison as long as they keep on winning can ignore all slanderous remarks. This statement is directly aimed at one called the town sports reporter.

I don't know what an NDAC team would have to do to please him. Of course, a majority of the people in the state agree that he is a little dense when it comes to sports. But, after finishing in the second division since '47, the F-M Twins still get a good backing from this so called newspaperman.

The people enjoy reading about the college when they have a good team. And this year they lead the conference, but they still rate poor writeups. If what went on in the field house the other night was showboating, the public wants it. I noticed a thunder of applause while the boys were 'showing off.'

I hope, along with 1600 other students that the Bison keep showboating and wind up with the conference championship. It's about time this college got some support from the townspeople and to look at the attendance over the last weekend, they're giving it to us.

Despite what is printed by this so called sports editor, a 1,000 per-

centage mark deserves more than heckling.

Speaking of showboating, I got a first hand report of this reporter in action the other night. When a grown man is made to eat his own words, they taste kind of bitter. Next time he wants to put on an act I suggest he get up on the stage and make a complete a- of himself.

Ken File, stellar Morningside forward, turned in one of the finest performances ever witnessed in the field house. His 30 point total for the evening stole the show.

Iowa Teachers starting quintet, consisting of Al Carew, Howard Pigg, Jack Rolinger, Bill York, and Harold Schuchmann, average just 19 years of age.

In case you've been wondering about scoring records in the NCC, John Diefendorf, basketball star at South Dakota U in 1949-50, holds five of them. They are: most points scored in one season, 271; most points in one game, 39; most field goals in one season, 103; most field goals in one game, 18; and top season average, 22.6 for a 12 game slate.

The conduct of the crowd and the student body has been brought to my attention by several people. Seems as though the courtesy displayed at the Bison home games has been everything but favorable.

It is a bad policy to boo and razz the opposition. When our team visits these other schools, they get the same treatment from their student body because of the reputation of our fans. NDAC has the worst reputation as far as courtesy on the part of the crowd is concerned in the conference.

One of the big problems concerns the referees. The NDAC field house is a nightmare to any official that has to officiate here. Of course, the referee cannot catch all fouls, but he also sees a lot that the spectators cannot detect. Consequently everyone thinks we are being 'robbed' and they let the official know by being discourteous.

I'm as much at fault when it comes to this subject as the next fellow. But, printed on this page is an article given to me by C. C. Finnegan, Athletic Director, known as the Code of Sportsmanship for the Spectator.

Read these eight suggestions and then try to apply them at the game. I'm willing to try, why don't you?

Code Of Sportsmanship

1. I will applaud good plays made by either team.
2. I will consider our athletic opponents and their fans as guests and treat them accordingly.
3. I will consider the officials as the proper authorities to make decisions and will respect their decisions without demonstration.
4. I will cheer the entry of both teams on the playing field or floor.
5. I will do everything in my power to prevent heckling, booing, throwing of objects, or any other acts of discourtesy.
6. I will support the team and coach regardless of the winning record of the team. I will consider the age, skill, and experience of the teams' members as factors in winning. I will remember that good material is necessary for a coach to win games.
7. I will take pride in promoting good sportsmanship among the spectators, players, and coaches and lend my wholehearted support to any program that strives for this.
8. I will attempt to become more familiar with the rules and fundamentals of the game in order to become a more intelligent and understanding spectator.

Attention Gymnasts

Anyone interested in doing apparatus work is urged to get in touch with E. E. Kaiser, by calling the Athletic Department, or by seeing him personally.

Herd Undefeated; Top NCC Basketball Race Second Week

The NDAC Bison won a pair of games over the past weekend to take undisputed first place in the North Central Conference basketball race.

The herd beat Morningside Friday night, 65-56, and Iowa State Teachers Saturday, 60-57. NDAC is now the only team that is undefeated in loop play. They own a 3-0 record.

North Dakota University on the other hand split their weekend double header, beating the Teachers Friday 55-54 while losing to Morningside Saturday 74-72.

In other conference games South Dakota State beat Augustana 43-39.

The NCC Standings:

	W	L	pct.	TP	OP
NDAC	3	0	1.000	187	172
Iowa TC	3	2	.600	299	269
S. D. S.	1	1	.500	96	102
Morningside	1	1	.500	128	139
N. D. U.	1	2	.333	180	202
S. D. U.	0	1	.000	48	51
Augustana	0	2	.000	98	105

Notre Dame U Wins Over AC Rifle Team

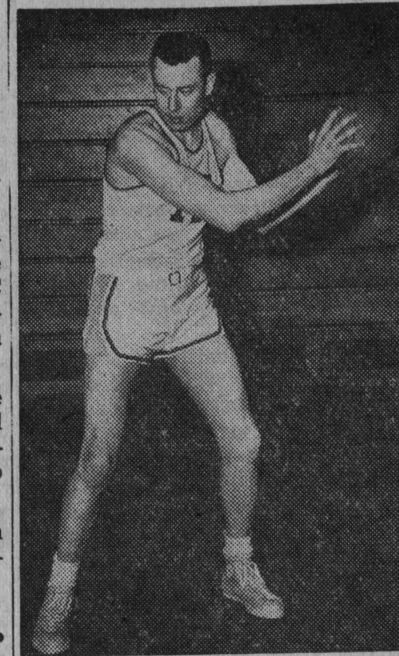
The AFROTC rifle team shot four postal matches this week, losing to Notre Dame university 1905 to 1844. The results are not available for matches shot with Cornell, Pittsburg, and Connecticut universities.

Postal matches are scheduled next week with Louisiana State and Illinois universities. The team's present standing is six wins and six losses for a .500 percentage.

When matches are scheduled it has been a practice for the five best men from the Army ROTC rifle team and five from the AFROTC team to represent NDAC in competition. This combination will shoot a shoulder-to-shoulder match with the Fargo Gun Club tomorrow night.

The AFROTC team is coached by Capt. Cecil H. Best, captained by Andrew Watt, and managed by William Clark.

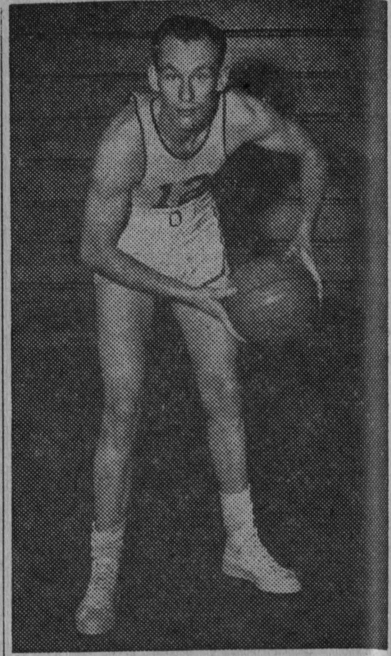
Sportraits . . . Bunker, Grant Top Scorers



At 6' 6", Art Bunker is the tallest man on the Bison roster. Big Art is probably one of the best rebounders and all round pivotman in the conference.

His most outstanding performance was turned in the other night against Iowa Teachers when he counted 22 points. Art's presence in a game seems to add a spark to the squad's confidence.

Bunker makes his home in Havre, Montana and is a senior playing his second year with the herd.



Bob Grant, pictured above, is playing his third year of varsity basketball for NDAC. Bob is a senior, majoring in chemistry.

Last year, Ace, was elected to the North Central Conference all star team and was one of the top scorers in the league. He scored 170 points during the 1950-51 campaign for an average of 14.2 per game.

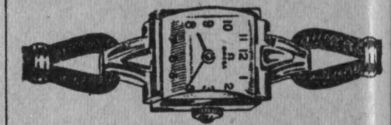
A native of Minot, Bob plays forward and center and is a constant scoring threat to all opponents.

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- Garden in the Rain...Perry Como
- Tell me Why.....Eddie Fisher
- My Lifes Companion.....Georgia Gibbs

LARGEST ASSORTMENT OF RECORDS TO CHOOSE FROM



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Hockey Team Wins Over Detroit Lakes For First Victory

The NDSC Hockey team, revived after four years of idleness, made its debut a snorting success by defeating the Detroit Rangers, Detroit Lakes that is. State used eleven men, two lines and five defense. Due to the absence of the regular goalie Larry North, Larry Hylden, and George Zwack, two defense men, assumed the net-tender position. They had eleven stops and allowed no goals. On the scoring end for SC were Chuck Brown, Don Gronlund, Tony Haberlack, Jim Grobe, Dick Kloubec, and Larry Rosenberg. The score was 6-0. Under the present set-up games of the four team commercial league are played Tuesday and Thursday nights at the Barnett Rink and Sunday afternoon at Detroit Lakes. A heated, warming house with a capacity of about two hundred people including a hot dog and coffee stand has been built. State plays the next game with the F-M Twins on Tuesday, January, 22.

A faculty committee at Clarkson College of Technology, Potsdam, N. Y., wants fewer exams. They believe exams should test a student's judgement and intellectual power rather than his ability to remember facts.

Over This-A-Way Boys!



Looks like a soccer game, as a Morningside player leaps ballet style into the air, while Don Fougner, of the Bison seems to be heading in the wrong direction. The Herd won 65-56 in a thrilling contest last Friday. (Photo by Junkin)

Herd Faces Big Test This Weekend; Meet SDU, Morningside, ISTC On Long Road Campaign

by Bob Fisher

The NDAC take to the road this weekend in search of their fourth and fifth conference victories. The Herd is currently riding a four game winning streak, three of them coming in conference play.

For the first time in years, NDAC is nestled on top of the NCC basketball pile. Every team in the conference has been defeated at least once, except the Bison, with two games scheduled tonight and another pair tomorrow night.

Friday, NDAC travels to Vermillion, S. D. where they tangle with the South Dakota University Coyotes. Saturday, the Bison move to Sioux City, Iowa to meet the ISTC Panthers. Next Monday, the herd faces Iowa Teachers at Cedar Falls, Iowa.

If the herd can come through on this crucial road trip, the carpet should be spread towards a championship. On completion of this series of games, the Bison will have faced all the conference teams except South Dakota State and North Dakota University.

SDU boasts of seven returning lettermen. Coach George DeKlotz, entering his third year at the helm of the Coyotes is optimistic as to the outlook for the 51-52 season. But, Don 'Tiger' Schwartz, a stellar performer from last year has been sidelined,

possibly for the remainder of the season, by an old recurring injury.

The seven returning lettermen are; regulars, Harvey Hanson, and Mel Heer, and Bob Sullivan, Dick Day, Larry Johnson, Don Masker, and Don Bruce. In addition, DeKlotz has Spence Brende, all conference football selection, and Dick Black and Duane Brunick, reserves from last year.

Last season, the South Dakotans had a conference record of 5-7 good enough for the fifth slot in the standings. The coyotes split with the Bison in their two games last year winning 67-55 and bowing 62-61.

Morningside promises to be a tough customer in their own field house. The Maroons, after dropping a thriller to the Bison last weekend 65-56, came back the next evening to nip the NDU Sioux 74-72.

Although Doug Gresham, fancy forward for the Iowans, gets most of the writeups, a teammate, Ken File appeared to be the most outstanding on the squad. File paces the conference scoring race with a 25.5 average. His shooting ability against the herd in Fargo last weekend was nothing less than spectacular as the slim sharpshooter pumped 30 points through the meshes. The following night at Grand Forks, he came through with 21.

Although the Iowa State Teachers College Panthers are temporarily out of the race with two losses, they are one of the most dangerous quintets in the loop. The Bison tipped the Panthers last Saturday 60-57 and made trouble all the way. As a matter of fact, it wasn't until the final quarter that the herd took the lead and staved off a last second rally by the tutors.

Outstanding for the teachers were Howard Pigg, Jack Rolinger, and Al Carew all among the top five scorers in the league.

Coach Chuck Bentson of the Bison was well pleased by the fact that the Bison picked up a couple of wins last week, but warned of overconfidence and letups. Bentson is expected to rest his hopes on Don Fougner, Jerry Geisler, and Jack Cavanaugh at the forwards, with Art Bunker and Bob Grant handling the center slot. The guards will be more than capably manned by Scott Thayer and Rod Fercho.

Bunker's 22 point spree against Iowa TC last week gave him sixth place in the individual scoring race with 40 points in three games. Other Bison in the top 15 scorers are; Brant, 8th, Thayer, 10th, and Fougner 12th.

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- Wednesday—Jan. 23
 - 7 p. m.—Basketball (IM)
- Thursday—Jan. 24
 - 7 p. m.—Basketball (IM)
- Friday—Jan. 25
 - 8 p. m.—NDAC vs S. D. State
- Saturday—Jan. 26
 - 8 p. m.—NDAC vs Concordia

Little Man On Campus

by Bibler



"That's Eddie's big problem—he stops TOO fast."



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 Seats Now On Sale—Call or Write—The Little Country Theater, Fargo, North Dakota. Enclose self-addressed envelope.

Nervous System Disease Causes Polio

QUESTIONS AND ANSWERS ABOUT THE POLIO PROBLEM

What causes polio?

Polio, short for poliomyelitis, is a disease of the central nervous system caused by a tiny virus.

How does polio virus enter the human body?

It probably enters the alimentary canal from the mouth and nose. How it travels to the motor nerve cells where it does its damage, is not yet fully established.

Does polio strike more children than adults?

Yes, only about 25% of the reported cases in this country are over sixteen. The number of older patients is increasing, however, and older patients appear to be harder hit.

How many people recover completely from infantile paralysis?

About 50% of all reported cases recover completely. Another 25% recover with slight after-effects that do not interfere with normal living. Approximately 17% are seriously and permanently crippled and about 8% die.

Which get polio more often, boys or girls?

It varies with age groups. In one special study, more males under 19 years of age were reported, more females from 20 to 39 years of age.

Why are more adolescents and adults now having polio?

Partly because today's adolescents and young adults in this country have not acquired an immunity to polio virus by exposures in childhood. Also, young people are apt to play hard, get overtired and may not take good care of themselves when they are fatigued or chilled.

Why is over-fatigue bad?

Scientists believe that once a person is infected by the polio virus, a delicate balance exists between the virus and the body's ability to fight it. The scales can be tipped in favor of the virus by over-exertion. A recent study revealed that heavy exertion in the early stages of the disease resulted in more severe and extensive paralysis.

Why shouldn't people have tonsillectomies, other throat operations, or teeth extractions when polio is around?

Because it has been found that during polio epidemics the serious bulbar type of polio occurs more frequently in individuals who have recently had their tonsils removed. It is believed that after a throat operation the virus can more easily gain entrance into the brain through exposed nerves leading from the throat. This also applies to teeth extractions or other mouth surgery. Ordinary cleaning and filling of the teeth may be continued as usual, when needed.

Is there any group of people immune to polio?

It is estimated that 80% of all adults are immune to at least one of the three known types of polio virus, as reflected in recent studies in Baltimore. They do not fall into racial, social or economic groups.

Pi Tau Sigma Gets Six New Members

Pi Tau Sigma, national honorary fraternity at NDAC, announces the initiation of six new members. Initiates are chosen on the basis of engineering ability, scholarship, personality and probable future success.

New members are Robert Gruel, IE, Sr; Wallace Swenson, IE, Sr; Albert Mahrer, ME, Sr; and Dale Peppel, Loren Peters, and Richard Turner, all ME, Jrs.

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- Aeronautical Engineering

Those chosen to participate in this plan will be from the upper portion of their graduating classes or will have evidenced unusual technical ability. They must also have evidenced imaginative ability and possess personality traits enabling them to work well with others.

CITIZENSHIP

Applicants must be United States citizens who can be cleared for "Secret," due to their work at Hughes Research and Development Laboratories being of a classified nature.

PARTICIPATING UNIVERSITIES

The University of California at Los Angeles and the University of Southern California will participate in this program, and candidates for Master of Science Degrees must meet entrance requirements for advanced study at these schools.

PROGRAM

Under this Cooperative Plan, starting June 1952, the following schedule of employment at Hughes is arranged:

- Full time—from June 1952 to Sept. 1952
- Half time—from Sept. 1952 to June 1953
- Full time—from June 1953 to Sept. 1953
- Half time—from Sept. 1953 to June 1954

Under this arrangement it is possible for a recipient to receive 3/8th of a normal year's salary each year and to attend

a university half time during regular sessions working on his Master's Degree.

SALARIES

Salaries will be commensurate with the individual's ability and experience and reflect the average in the electronics industry. Salary growth will be on the same basis as full-time members of the engineering staff. In addition, the individuals will be eligible for health, accident, and life insurance benefits, as well as other benefits accruing to full-time members.

TRAVEL AND MOVING EXPENSES
For those residing outside of the Southern California area, actual travel and moving expenses will be allowed up to 10% of the full starting annual salary.

TUITION

Tuition at either UCLA or USC, covering the required number of units necessary to obtain a Master's Degree, will be paid by Hughes Research and Development Laboratories.

NUMBER OF AWARDS

Approximately one hundred Cooperative Awards shall be made each year, if sufficient qualified candidates present themselves.

SELECTION OF CANDIDATES

Candidates will be selected by a committee of representation composed of two each from the University of California at Los Angeles, the University of Southern California, and the Hughes Research and Development Laboratories.

DATES FOR APPLYING

Informal applications should be mailed prior to January 30, 1952. The Laboratories will then forward formal applications, which should be returned, accompanied by up-to-date grade transcripts, by February 15, 1952. Selections will be made during the month of March.

ADDRESS CORRESPONDENCE TO
Hughes Research and Development Laboratories
Engineering Personnel Department
Culver City, California

BERNIE'S

RADIOS
RECORDS
APPLIANCES

625 N. P. Ave.

Dial 8448

Dr. E. A. Anderson

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Glasses Fitted

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For Appointment
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