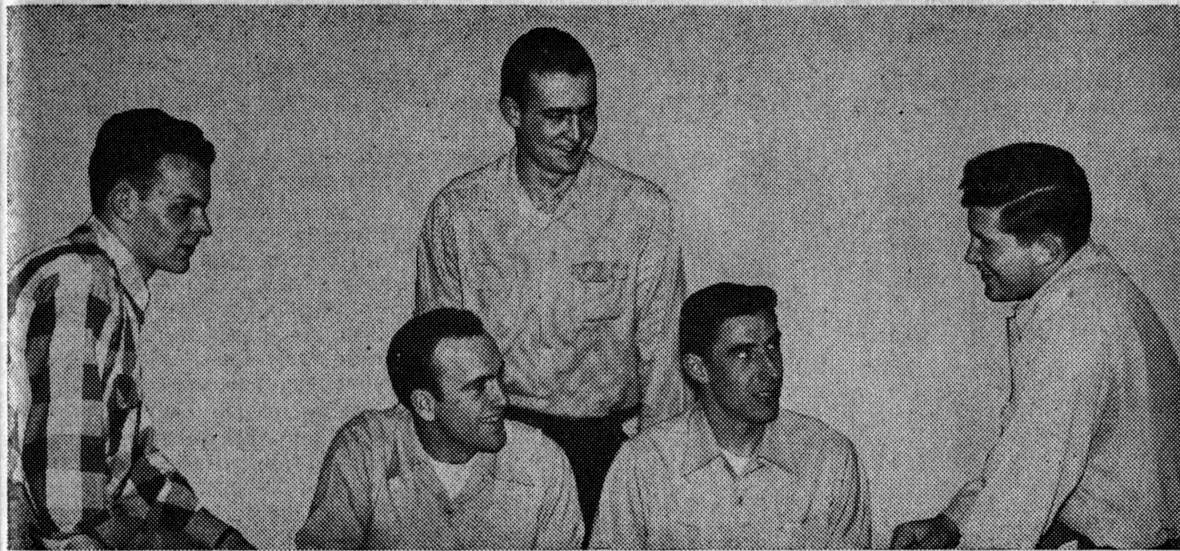


"King Of Kings"
8 p. m. Sunday
Festival Hall



Engineer's Ball
Tonight
Hanson To Play

Brevities Televised Throughout U. S.



Production staff for Bison Brevities are Edwin Boerth, business manager; Marlowe Jensen, director; John Dean, publicity; David Peppel, producer; and Clayton Haugse, tickets.

Plans are now being completed for a television production company to film Bison Brevities. The acts will be shown over television networks throughout the United States. A photographer from Picture magazine of the Minneapolis Sunday Tribune will also take pictures.

Rehearsals for Brevities are being carried on in three different places; the College "Y", Festival Hall, and the Field House. Full dress rehearsals are scheduled for Sunday and Monday, April 26 and 27, according to John Dean, Publicity Chairman of the Brevities. Other members of the production staff include Marlow Jensen, director; David Peppel, producer; Edwin Boerth, business manager; Clayton Haugse, ticket sales chairman; and David Parker, assistant director.

Luncheon Launches Ticket Sales Drive

Competition for the 1953 Bison Brevities ticket sale contest began last Tuesday at a kickoff luncheon sponsored by Blue Key. The contest is composed of two divisions; men's division and women's division.

The band has been practicing the music and it planned to have its first rehearsal with the acts tomorrow, April 18. Work on the stage in the Field House, on costumes, and on scenery has been started.

The Brevities, which are scheduled for April 28, 29, and 30, are sponsored by Blue Key, national honor service fraternity.

A trophy will be awarded to the organization turning in the greatest amount of money from ticket sales in each division. In addition the ticket sales chairman from the winning organizations will receive a ten dollar cash award.

The Brevities this year will consist of five-fifteen minute acts and three-five minute acts. The complete program is scheduled to be two hours long.

Education Board Creates Grad Council; Selects Arnes As New NDAC Dean

by Renee Baker

At its meeting in Bismarck last week the Board of Higher Education took two actions important to the NDAC, according to President Fred Hultz. The request for a Graduate Council was approved along with the selection of Dr. Hale Arnes, Chairman of the Department of Education in A. & S., to serve as Dean of the new school.

The move becomes effective with the opening of the 1953 Summer Session and should result in the attraction of students who are seeking advanced work in the various departments of the College.

A graduate School faculty, the personnel of which will be drawn from the other six schools on the

campus, will be formed as a part of this new project. Dean Arnes will continue his duties as Chairman of the Department of Education and there will be no other personnel changes in connection with the new Graduate School.

The second item of importance to the College was the acceptance by the Board of a bid of \$11,900 for 68.4 acres of industrial land lying west of Dickinson and owned by the College Experiment Station. The Board authorized the purchase of an additional quarter section of farm land with the proceeds from this sale as an addition to the property of the Dickinson Branch Station which is being operated under the direction of the A.C.

The Board also authorized the purchase of a quarter section of land adjacent to the Langdon Branch Station, also a part of the A.C. Experiment Station, to enlarge the work in durum wheat breeding at Langdon. Money for the purchase of this land was appropriated by the recent legislative sessions.

Panhellenic Council Plans Annual Tea

Panhellenic Council has chosen April 20 for their annual rushing tea for high school seniors from the Fargo-Moorhead area. The tea will be held in the Little Country Theatre.

The object of the tea is to acquaint senior girls with NDAC and the policies of the sororities and campus. Seniors from Fargo, Moorhead, Shanley, West Fargo, and MSTC high schools have been invited.

Speakers will be Dean Dinan, telling of how sororities operate on campus and Dr. Hale Arnes speaking on the policies and opportunities at the NDAC.

Ag Seminar April 23 Slates Schwarzschild

Thursday, April 23, Rabbi Stephen Schwarzschild will speak to student and faculty members at an agriculture seminar. Rabbi Schwarzschild will speak on, "Rewriting History In the Image Of Today."

The seminar will be held in Room 215 in Morrill hall at 4 p. m.

Engineers Set Ball Tonight At KC Hall

Tonight the NDAC Engineers Ball will be held in the Knights of Columbus Hall in Fargo. This gala affair is a semi-formal event with no corsages. Paul Hanson will furnish music for the dancing from 9 to 12.

Richard Brown, senior in civil engineering, is general chairman. Committee heads are William Richards, Ind E-Sr., publicity; Jerome Benshoof, EE-Sr., Tickets; and Lloyd Beling, CE-Sr., decorations.

Tickets, which may be purchased from engineering students, are \$2 per couple.

'NDAC On Parade' KFGO Radio Feature

"NDAC On Parade," a series of programs produced by the college over radio station KFGO, are being broadcasted each Friday evening at 8:30 p. m. with state high schools participating.

The half-hour programs are produced in cooperation with various high schools throughout the state under the supervision of F.G. Walsh and Constance West of the department of speech and drama, NDAC.

A panel composed of an instructor from each of the schools here at NDAC and several students from the high school conduct an interview type program. Musical numbers and other talent presented by the high school are interspersed with the panel discussion.

Cecil B. DeMille Show Given Sunday, April 26

"King of Kings", a Cecil B. DeMille production, will be presented Sunday, April 26, 8:00 p. m., at Festival Hall. This full length film is being sponsored by the First Baptist Youth Fellowship to secure conference funds. The film is free to the public.

Four Fellowships Given

The School of Chemical Technology has just been assigned four fellowships for the school year of 1953-54 by the Ernest T. Trigg Foundation of Philadelphia, Pennsylvania, according to Dr. R. E. Dunbar, Dean of Chemistry. Each fellowship will provide \$600.00, a total of \$2,400.00, for nine months of study to encourage Senior and Graduate Students to enter the field of Protective Coatings.

During the current school year the same foundation awarded three similar fellowships of \$750.00 each, a total of \$2,250.00, to three students in Protective Coatings. The new grants, therefore, represent a substantial increase in available funds. Students selected for the 1952-53 fellowships were Donald Pehrson of Moorhead, Stanley Loken and Leslie Ferris of Fargo. Inquires for future consideration should be directed to Dean Dunbar.

Six Week TV Course Draws 76 Applicants

A total of 76 persons from North Dakota and Minnesota have enrolled for the six-weeks TV adult evening course at NDAC, offered through the department of electrical engineering and the engineering extension service.

Classes, held twice weekly, were organized to explain TV fundamentals, circuits and servicing techniques; and have been designed especially for radio and television servicemen in the community.

According to R. N. Faiman, chairman of electrical engineering at NDAC, "The response has been most encouraging. TV Fundamentals is being offered as a 'service to citizens in the area' and if the demand is great, an advanced course will be initiated to follow the beginning course of instruction."

Representatives from Valley City, Devils Lake, and Buffalo, North Dakota and Halstad, Comstock, Detroit Lakes and Winger, Minnesota commute to Fargo for the regular class sessions.

Y Leaders Travel To NDU Meeting

Attending the district conference of the North Dakota State YM-YW today and tomorrow, April 17-18 are 15 to 20 NDAC students. Miss Fern Babcock, National Student YWCA Program Coordinator, will speak.

The conference will be composed of workshops. Each of these workshops will have a resource person and a student chairman; the aim of which is to develop a broader outlook in different topics.

Leading the public relations workshop will be Carl Elofson, as student chairman, and H. Dean Stallings, resource person. Nancy Moffet, Jamestown College student, will lead the workshop for executives. Mr. Rudolf Otterson will be resource person.

Phyllis Wyum will head the membership workshop with Mrs. Rainer Schickele as resource director while Beverly Selland will lead sessions about projects, with Mrs. Norman Tenneson resource head.

Lois Ackerhaven, Jamestown college student, with the help of Mrs. John Bennison, former YWCA secretary, will lead a discussion on program building.

Retail Merchandising Jobs Open For Seniors

Seniors interested in retail merchandising will be offered an employment opportunity on April 24 when a representative from the Dayton Company of Minneapolis will be on the campus. Opportunities in all phases of merchandising will be open for both men and women.

A group meeting is scheduled for 9 a. m. in the lower reading room in the Library. This meeting will make it possible for interested individuals to meet the company representative.

Organizations Elect, Initiate, Entertain

- Rahjah Club -

New Prexy. of the Rahjah club, NDAC pep organization, is James Gross. The other officers include Lawrence Hylden, vice-president, Marvin Wall, treasurer; Richard Wenberg, secretary.

The Rahjah club will hold an open house in the student lounge of the Library at 4:30, April 22, for the purpose of meeting prospective members. Anyone interested in this campus pep organization is cordially invited to attend. This new method of membership selection is being initiated by the Rahjah club to help insure the selection of men who are really interested in the club.

- LSA -

At their Sunday evening meeting, April 12, the Lutheran Student association held installation ceremonies for their new officers. Robert Leiseth was installed as president; Lois Knatterud, first vice president; Eddie Gordhammer, second vice president; Ardis Jacobson, secretary; and Loran Bieber, treasurer.

Chairman of special committees are Gloria Hoganson, program coordinator; Carol Hanson, publicity chairman; Robert Berg, recreation director; Muriel Melby, center chairman; William Shelver, study chairman; Henry Trangrud, stewardship director; Alice Bjorkland, campus evangelism director; De-lores Olson, mission director; and Roy Gjertson, church and community chairman.

- Alpha Zeta -

Alpha Zeta, honorary agricultural fraternity, elected new officers at a recent meeting. Officers elected are chancellor, Marvin Meyer; censor, Curtis Jensen; scribe, William Costello; treasurer, Earl Marifjeren; chronicler, James Michaelson; and guide David Bartholomew.

Aims of the fraternity are to promote character, leadership, and scholarship in the field of agriculture. Membership is open to agriculture students who have completed five quarters.

- Edwin Booth -

At initiation last Tuesday, April 14, Edwin Booth dramatic club admitted four members. They were Virginia Falter, Dorothea Christian, Joanne Marquart, and Ray Horne. Initiation was performed in the home of Mr. Alfred Arvold, former head of the speech department.

Requirements for Edwin Booth club are a 2.5 scholastic average, and participating in different dramatic productions. The club also cooperates with the speech department in producing plays, as well as giving performances of its own.

Tioga Planning Project To Be Circulated; Available To Community Upon Request

A traveling exhibit illustrating stages in planning for future growth and expansion of a small city (using Tioga, North Dakota as a typical example) is available for display in any North Dakota town requesting the exhibit.

Models and drawings included in the show were prepared for a project assigned 5th year architecture students and were originally exhibited during March at the annual Home Builders Show. O. Reuben Johnson, assistant professor of arch-

itecture and city planning, directed the project, selecting Tioga as a typical town where "boom" conditions resulting from oil discovery "make planning for the future growth an absolute necessity."

The object of the project is to develop a plan elastic and flexible, providing facilities for a "short period of rapid growth—facilities which can later be converted to other uses." Students have developed maps, drawings and scale models to illustrate the projected expansion.

- ASAE -

The American Society of Agricultural Engineers has elected officers to serve during 1953-54. They include Earl Marifjeren, president; Carroll Drablos, vice president; Alfred Lindon, secretary; Robert F. Berg, treasurer; and Nick Westman, Engineers Council representative.

Plans have been made for a spring field trip to Duluth, Hibbing, and the Iron Range, to view actual mining operations. Marvin Jensen, faculty sponsor of the club, will accompany members on the field trip.

- Newman Club -

Bob Gion is the new president of the Newman Club, as the result of elections held April 12. Other officers includes James Olig, vice-president; Jacqueline Jungers, secretary; Sharon Kaspari, treasurer; and Dorothy Ryan, program chairman.

Those named to appointive posts are Robert Gion and Margaret Harding, Inter-Religious Council; William Lee, house manager; Marianne Hunke and Mardel Fehr, refreshments; and Harvey Held and Lawrence Helt, servers.

April 19, Mary Ellen Birkeland will lead a panel discussion on the Christopher Movement.

- FFA -

Richard Tewksbury, Ag-Sr., was elected president of the Collegiate chapter of Future Farmers of America at a recent meeting of the organization. Tewksbury's activities include membership in Blue Key, Kappa Delta Pi, Saddle and Sirloin club, and Alpha Gamma Rho fraternity, and past membership on the board of finance, student commission, and committee to choose representative seniors.

Other officers elected include William Well, vice-president; Earl Peterson, secretary; Robert Hughes, treasurer; Marvin Lambke, reporter; Eric Arnson, sentinel; and Delmar Grueble, Curtis Jensen, and Kenneth Briese, officers-at-large.

Radio Broadcasts Five Days Weekly, Two Hours Nightly

Starting yesterday, April 16, the NDAC radio station began broadcasting to the campus. Programs can be heard at 750 on the dial within campus area from 5 to 7 p. m. daily, Monday through Friday.

Directors for the station are Joe McNellis, technical engineer; Scott Pederson, director; Wesley Rae, drama editor; Charles Abrahamson, music editor; Harold Miller, sports editor; and Richard Berdahl and Renee Baker, co-news editors.

Prior to actual broadcast yesterday, the station had been having mock broadcasts as to acquaint the staff with procedure of a radio station.

Programs will include different kinds of music, interviews, sports news, campus news, and drama shows. The day by day program is as follows:

Monday
5:00—5:15 Recorded Musical Show
5:15—5:20 News
5:20—5:45 Disc Jockey
5:45—5:50 Sports News
5:50—6:00 Drama News
6:00—6:25 Music
6:25—6:55 Jazz Music
6:55—7:00 News

Tuesday
5:00—5:15 Recorded Musical Show
5:15—5:20 News
5:20—5:45 Disc Jockey
5:45—6:00 Interviewing Organizations
6:00—6:55 Concert Hall
6:55—7:00 News

Wednesday
5:00—5:15 Recorded Musical Show
5:15—5:20 News
5:20—5:45 Disc Jockey
5:45—5:50 Sports News
5:50—6:00 Spectrum Headlines
6:00—6:55 Music
6:55—7:00 News
5:00—5:15 Recorded Musical Show

Thursday
5:15—5:20 News
5:20—5:45 Disc Jockey
5:45—6:00 Interviews
6:00—6:55 Imaginary Hall—music
6:55—7:00 News
5:00—5:15 Recorded Musical Show

Friday
5:15—5:20 News
5:20—5:45 Disc Jockey
5:45—5:50 Sports News
5:50—6:00 Weekly News Recap
6:00—7:00 Theatrical Production

Save this program schedule for it will not be reprinted.

Student Union Interior Shows Progress; Terrace Extends Length Of Building

by Renee Baker

With the outside of the NDAC student union nearly completed, attention turns to the inside of the building where, after giving the interior a thorough going over, reports on progress are very satisfactory.

All rooms have progressed to the stage where their function for the union is apparent. Possibly the most advanced room is the large student lounge. This lounge, facing east, has a fireplace on the south side of the room with windows along the east wall overlooking a terrace which extends the length of the union.

Adjacent to the large lounge is a smaller lounge where students or small groups can meet. The west wall is lined with windows while a small room off the lounge has a small kitchen for serving groups which meet in the lounge.

The two lounges will be separated by a partition which may be removed to accommodate large groups.

All windows in the union face either east or west, however, since all rooms have access to east or west windows, lighting seems to be very good.

LSA Spring Festival Features Anderson



Dr. O. V. Anderson of LaGrange, Ill., will speak at 4 p. m. April 19 in Festival hall as part of the Lutheran Student association spring festival. Dr. Anderson is chairman of the executive council of the student service division of the National Lutheran Council. His topic will be "Investigations: Our Colleges and the Church."

Special music will be provided by the St. Luke's Hospital Nightingale Chorus under the direction of Lawrence Gidmark. Following the meeting, a brief play, "The Crown of Thorns," will be presented by a group of MSTC students.

Cards for admission are available at the Lutheran Student center.

One of the handiest rooms for the sports minded person will be the bowling alleys in the basement. This room, by far the largest of all, will accommodate eight bowling alleys. Another room for sports people will be the recreation room where there will be pool tables and ping pong tables for student use.

Directly across from the bowling alleys will be the bookstore, which will be operated partly on a self-service basis. Also in the basement will be a barber shop, trophy cases, cases for displaying merchandise from Fargo-Moorhead stores, and miscellaneous rooms.

Going to the top floor the big attraction is the ballroom. A large room in the northeast corner of the building, it has a three foot stage at the north end with dressing rooms and storage rooms leading off the stage.

Possibly the busiest room will be the 'Bison Room', the union cafeteria. Light lunches will be served from early morning to late evening. The lunchroom will be a non-profit group ready to serve the students.

Other rooms in the union will include cloakrooms, conference rooms, publications room, offices and store rooms.

Color schemes for the union are being handled by Ken White Company of New York. They are planning the room arrangement and color schemes for all rooms.

Some of the furniture has been selected. Bids for the furniture must be submitted by April 31.

After seeing the inside of the union the prediction that it will be ready for use by fall appears justified, and students can begin planning now for the student union to be the center of most school affairs next year.

Anderson, Sakshaug To Attend Meeting

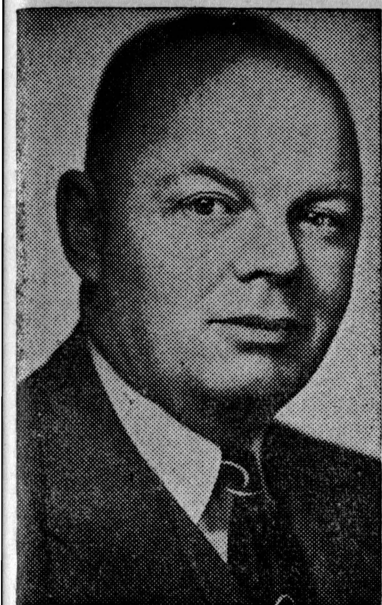
Two members of the engineering company's Research Laboratory at Alliance, Ohio. The Babcock and Wilcox Company is holding this meeting in order to acquaint engineering faculties with what the company is doing.

Brevities Ticket Campaign Begins



Ticket chairmen for Brevities organized after the kick off luncheon last Tuesday. They are, front row; Eric Flaten, Byron Lynse, Daune Hambergren, and Neysa Henderson. Standing are Mary Hagen, Elaine Geiszler, Beth Turner, Douglas Boling, Gary Hart, Lothar Riba, Judith Sherwood, Harvey Held, and Marilyn Hunter.

Calhoun, '42, New Assistant Manager Students Say Red Teachers Unwanted



John R. Calhoun

Rapid advancement in the electric utility field was demonstrated recently when John R. Calhoun, who received his B. S. degree in mechanical engineering from ND-AC in 1942, became assistant manager of the O. H. Hutchings Station of The Dayton Power and Light Company, Dayton, Ohio. Calhoun joined the company shortly after receiving his M. S. degree from Iowa State College in 1947.

After apprenticeship at the Company's other generation plant, the Frank M. Tait Station, Calhoun was sent to the O. H. Hutchings Station. He was given responsibility of following up the installation of all mechanical meters and controls for Unit No. 1.

When the first unit started in July 1948, Calhoun became the station's first Test and Efficiency Engineer and later became Supervisor of Operations.

(ACP) Students are overwhelmingly against members' of the Communist party teaching in the nation's colleges, but they're somewhat in favor of teaching jobs for former Communists. This was learned in a recent ACP National Poll of Student Opinion.

Results of the first question—Do you think avowed Communist party members should be allowed on college faculties?—are as follows:
Yes 9 per cent
No 85 per cent
No opinion 4 per cent
Other 2 per cent

The few students who say "yes" usually qualify it. "Communist teachers should be advertised as such," says a junior at the University of Nebraska.

The second question was: Do you think that former members of the Communist party should be allowed on college faculties?

Here are the results:
Yes 45 per cent
No 39 per cent
No opinion 9 per cent
Other 7 per cent

Many students think former Communists would be good teachers because, as one student puts it, "They would know both sides."

An ACP survey last winter indicated that the majority of students were against loyalty oaths for college professors. The figures were: Approve, 39 per cent; disapprove, 47 per cent. Seventy-three per cent of the graduate students disapproved.

In the present survey, 60 per cent of the graduate students are in favor of college teaching jobs for former Communists.

Brevities In Full Swing



Busy practicing Brevities are Robert Miner and Marie Nygard. They are in the Alpha Gamma Rho—Kappa Delta 15 minute production.

New Textbooks For AF ROTC Available

Montgomery, Ala.—A new series of Air Force textbooks will be available for AF ROTC cadets next fall. Approximately 20 books are now completed with 11 more scheduled for publication in 1954.

The textbooks, designed to support the new generalized curriculum of the AF ROTC, are now being prepared at the AF ROTC headquarters of the Air University in Montgomery, Alabama. The new curriculum will be initiated in September.

Air Force officials, realizing that Air Science has social and cultural

significance in addition to a military one, have included in the curriculum subject matter which approaches traditional college courses in geography, problem solving, management and communication from a military standpoint.

A series of training aids such as film transparencies, mock-ups, models, charts and graphs, are also being planned to help AF ROTC instructors get the material across to the students.

A long-range plan in using the new textbooks is to employ experience and suggestions of instructors, to revise them accordingly.

Group Sponsors Tea

The Faculty Women's club sponsored a tea Thursday, April 16 at the college lounge for mother's of students from Fargo, Shanley, and Oak Grove high school's. Mrs. Glen Smith, president, announced that the purpose of this tea was to acquaint student's mothers with the college.

Exhibit Children's Toys Architecture Students

Sophomores in architecture, as one of their projects, are designing a toy. The equipment for this toy cannot cost more than two dollars and has to be built for the library in one week. It is to be built for someone between the ages of 18, months and 5 years.

The toys will be judged on (1.) Ingenuity of basic psychological appeal as a toy. (2.) Excellence of general design composition. (3.) Practical considerations, durability, safety and etc. A complete description must accompany the toy. An example of what is going on is "The Handy-Dandy Floor and Table Bouncer" built by Gene F. Harris.

CECILE B. DeMILLE'S PRODUCTION OF "King of Kings"

To be shown — Festival Hall — April 26 — 8 P. M. Public Welcome — Admission Free

Whirl through the Spring Formal in a Gown from deLendrecie's



We have the styles you cherish . . . the romantic billowy skirts or the sophisticated willowy styles . . . in ballerina or full length . . . most any fabric you desire . . . and luscious spring colors. Come in and discover the dress that's just meant for that special dance!

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deLendrecie's

School Takes Exam

An examination of the School of Engineering for the purpose of re-accrediting will take place on April 29 and 30. This examination is repeated every five years. This year Professor Everett of the University of Illinois will be in charge.

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What's On Our Mind

Students Claim Book Store Constant Point of Irritation

Year after year the book store has been a constant source of irritation on this campus. Students mutter about it, and instructors allude to it with wry smiles at the beginning of each quarter.

The mere fact that people are muttering and smiling should justify a display of curiosity in this matter. Several attempts have been made in the past to check into various phases of the book store's operation, but all have been met coldly, to use a charitable adjective.

A majority of the people in our society are governed or guided in their thinking by their heritage of long experience under English common law. It is a peculiar feature of this law that the suspected be given an opportunity to clear themselves before accusation.

Social Spy . . .

Sororities Pledge; Greeks Get Honors

by Grace Lehman

One of the local movie houses came out last week with the first of the three dimension pictures and if you had the good fortune of having a lover in your lap, you were more fortunate than the SPY.

LOTZA REASONS

. . . for congratulating people are in order for this week. First Bud Busch gets a line for winning the sports award for Kappa Sig fraternity.

. . . The Alpha Gams gave awards after their International Reunion Day; Dorothy Pederson won for the highest scholarship, Dorothea Christian for raising the average most, Jo Ann Johnson for the most activity points, and JoAnn Christianson received the Mother's Club award of having a diamond put in her pin for the retiring president.

A NEW PLEDGE

. . . for the Kappa Deltas is Joan Evanstad who pledged last week. Best wishes to you, Joan.

. . . Marilyn Hagen and Marlene Qualley, new Gamma Phi pledges.

. . . Lois Hultstrand, Kappa Kappa Gamma pledge.

CONGRATS TO

. . . Clint Dodge who received the outstanding pledge award for Alpha Gamma Rho.

BIG DATE SET

. . . Duane Hambergren, Kappa Psi, and Jo Anne Eklund, St. Paul, Minnesota, have set May 16 as their big day. Miss Eklund is a nurse at the University of Minnesota.

AND NOW

. . . my best wishes go to my old roommate, Beverly Selland, who recently received an SAE pin from Don Ellingsberg.

CONVENTION TIME

. . . Sylvia Askew and Carol Jordheim leave next Thursday, April 23, for Chicago for the Kappa Kappa Gamma province convention.

clearing up this book store question.

It might be a good idea at this point to suggest that both the book store and the administration are in a position to undertake that task, and that they recognize as important the prevailing mood of distrust.

There is an attitude which may help to explain any reticence to release a few basic facts. This attitude is that the book store is held to be none of the students' business.

Students, either from their own pockets or through those of their parents, contribute to the state revenue daily. Further, the book store is the concern of anyone paying federal taxes, since a sizable portion of that money is returned to such schools as this one in the form of veteran's benefit expenditures.

If the book store has nothing to hide, let it make available to the "Spectrum" a comparative list of wholesale and retail prices of books and supplies. If the administration is genuinely interested in removing the book store stigma, let it accompany that list with a statement of the book store's purpose.

Student Senate Invite Students To Meeting

The Student Senate will meet Wednesday, April 22 at 6:30 p. m. in the lower reading room of the Library. Students interested in voicing opinions regarding the choice for the date of the holiday awarded in lieu of absence of class breakup during the "Nickel" series are requested to attend that Senate meeting, according to student government president, Mancur Olson.

Concordia Presents Symphony Concert Thursday, April 23

by Wesley Rae

The last concert of the Concordia series will bring the Minneapolis Symphony orchestra to the Concordia gym on April 23. Tickets for the concert are on sale at Davau's, and special seats are available for students.

The Minneapolis orchestra is conducted by Antal Dorati, who took charge in 1949. A native of Budapest, Hungary, Mr. Dorati at the age of 18 conducted the Royal Opera House of Budapest. He worked under Bela Bartok and Zoltan Kodaly.

The alumni members of Sigma Alpha Iota will present Beatrice Farnham in a piano concert in Festival Hall April 22 at eight. Miss Farnham has appeared with the Fargo-Moorhead orchestra and with the Minneapolis Symphony and Civic orchestras; she is a native of the northwest.

The Fargo-Moorhead Community theatre is completing rehearsals for the performance of "Private Lives", a comedy by Noel Coward. Dates for the play are April 27, 28, and 29.

AAUW Shows Faculty, Student Art Projects

The Moorhead chapter of the American Association of University Women is sponsoring the showing of paintings of Fargo-Moorhead artists with faculty members and their wives displaying paintings. Among these are Mr. and Mrs. John Weaver, architecture instructor; Mr. Richard Lyons, English instructor; Mr. George Polk, architecture instructor; Mrs. Leo Hertel; Mrs. Marshall MacDonald; and Mrs. Fonsoe Bolin, art instructor.

Students will be showing articles they have made in various art classes. Pupils from Miss Eileen Satre's Costume Design Class, Art 209, that have articles on display are Gretchen Wilson, Lee Ann Kisser, Margaret Otterson, Beverly Simons.

Mrs. Fonsoe Bolin's Textile Design Class is featuring articles made by Carol Hanson, Audrey Little, Joan Nordlund, Delores Madson, Shirley Isgrig, Marilyn Richardson, Joyce Mueller, Anna Molta, Helen Schlabach, and Kathryn McGreary.

LITTLE MAN ON CAMPUS

by Dick Bibler



"Oh, she has a pretty mouth all right, Worthal—it's just that most freshman girls are a little bashful on blind dates."

Fraternities Gain 89 Active Members; AGR's, Kappa Psi's Initiate Most Men

After surviving 'Help Week' 89 fraternity pledges became active members in their respective organizations. Initiation ceremonies were held last weekend, April 11 and 12.

Initiated into Alpha Gamma Rho were Floyd Askim, Dale Bergland, Dennis Bergren, Russell Bieri, John Bollingberg, Neil Bowles, Jerome Hallen, Arlo Howe, Merrill Johnson, art instructor.

Westra Heads KSC

At an election recently Kappa Sigma Chi elected John Westra, agriculture junior, president for the coming year. Robert Hughes was chosen vice-president.

Other officers are Edward O'Brien, secretary; Allen Fehr, treasurer; Richard Payton, house manager; Neal Funston, pledge trainer; Richard Kikowski, historian; Richard Froeschle, reporter; and Richard Wenberg, Interfraternity Council representative.

son, Robert Knudson, Dale Longtin, Peters Lundwall, Nels Midgarden, Joseph Ruliffson, Clayton Tollerud, and Ronald Tolstad.

Wearing the pin of Alpha Tau Omega are Roger Abbott, Roy Cedarstrom, Bernard Brown, Russel Slotten, William Brady, William Brunsdale, James Stenslie, Richard Berdahl, Ronald Zottnick, John Larum, Michael Fogel, Leon Johnson, Roger Erickstad, Robert Montgomery, and James Brogger.

One of the largest pledge classes in the history of Beta Sigma chapter of Kappa Psi was initiated Sunday, April 12. New members are Harvey Lillestol, Paul Irsfeld, Robert Peterson, Bernard Simon, Wayne Nelson, Rollis Balke, Wallace Geck, Art Kautzmann, William Shelver, John Southam, Duane McCullough, Lloyd Pekas, James Olig, James Rumpka, and Curt Lechner.

New actives of Kappa Sigma Chi are Earl Peterson, Richard Pankrat, Dale Lund, and William Brandvik.

Sigma Alpha Epsilon initiated Howard Stockman, Roger Engebretson, Clifford Moore, Jerry Hillstrom, Mark Fraase, Leroy Odenbrett, Douglas Goedert, James Harvey, and William Buckellew.

New wearers of the cross of Sigma Chi are David Bassingthwaite, Charles Bryant, Richard Danstrom, Laurence Diemert, Gordon Gates, Norman Hansen, Harry Lohse, Gilbert Nelson, Howard Park, John Piffner, Michael Rosenberg, James Schaak, and Keith Wilkening.

New actives of Sigma Phi Delta are Lother Riba, A. W. Anderson, Jr., Cyril Stadsfold, Willis Stelter, Stanley Witteman, and Donald Skadland.

Theta Chi initiated Harold Miller, Aaron Rash, Duane Ericksmoen, Nick Roster, Robert Olson, Lawrence Van Berkom, Charles Lodgard, John Dewey, Darvin Johnson, Leslie Welter, Rome Mikkelson, and Bruce Palmer.

Dream Girls On Parade



Candidates for Sigma Alpha Epsilon's "Dreamline Girl" take time out for a picture. They include, seated, Joyce Kirkus, Sylvia Askew, Elaine Forbes, and Janice Hamilton. Standing are Joann Samson, Patricia Garyen and Beverly Selland. The Dreamline Girl will be chosen next Friday, April 24, at the fraternity term party.

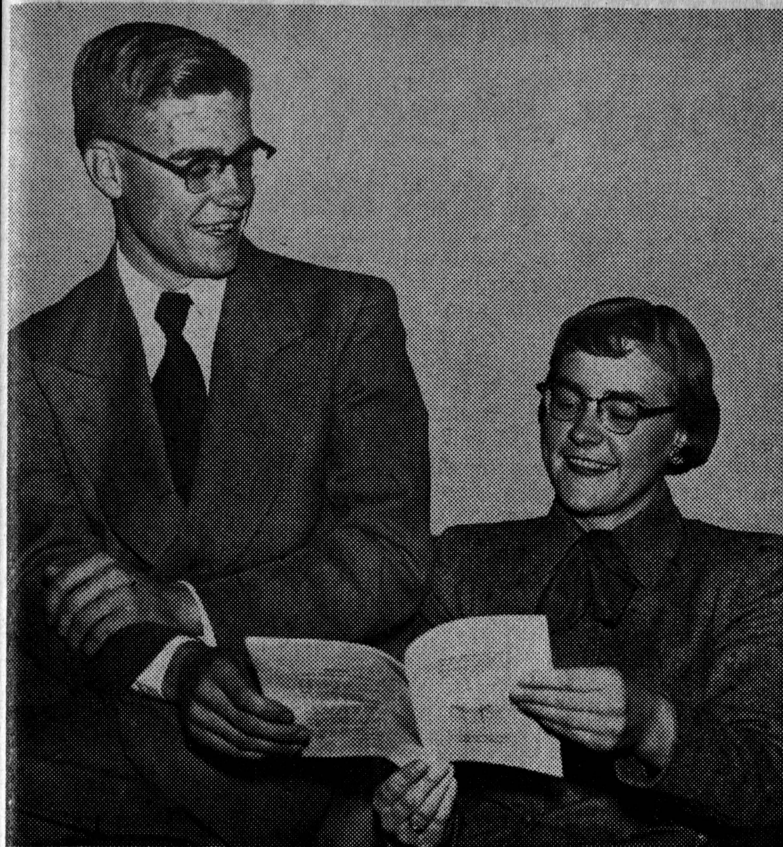
THE SPECTRUM

Published every Friday at Fargo, North Dakota by the NDAC Board of Publications, State College Station, Fargo, North Dakota.

Subscription rate \$1.00 per term. Entered as second class matter December 10, 1945, at the Post office at Fargo, North Dakota, under the act of March 3, 1879.

EDITORIAL Editor-in-chief: Renee Baker Business Manager: Richard Hill Editorial writer: Ruth Haynes Sports Editor: Sam Lowe Social Editors: Grace Lehman

Pederson, Moore Head YW, YM



Delbert Moore

Bonita Pederson

On Tuesday evening, April 21, the following officers of the college YMCA and YWCA will be installed by Miss Fern Babcock, National

Student YWCA Program Co-ordinator. The new YM and YW presidents are, respectively, Bonita Pederson and Delbert Moore with Jane Preuss and Stanley Eloffson as the new vice presidents. The secretaries for the coming year will be Jo Ann Gray and Frank Rose; treasurers are Ruby Enander and Donald Greenheck.

The installation service will take place at the college "Y" at 7:30 P. M. with students and faculty invited.

Miss Babcock has served the student "Y" movement as resource person for programming, and is the main speaker this weekend at the University for the District Conference of the North Dakota YM - YW District. She will be on the campus of NDAC next Tuesday and Wednesday and will speak at the YM - YW coffee hour on Wednesday afternoon.

'Protestant Revolt', Honor Roll Increases 28% Over Last Quarter; Home Ec Gains Top Average

NDAC library has arranged to show "The Protestant Revolution", a photographic exhibition prepared by the editors of LIFE magazine.

"The Protestant Revolution" is based on the LIFE article (June 14, 1948) in the series devoted to the History of Western Culture. It deals with that turbulent century and a half of European history from 1500 to 1650 and represents a period of religious and political conflicts which witnessed the rise of nationalism throughout Europe.

"The Protestant Revolution" is divided into four sections, the first is called the Catholic Church and It's Leaders. Panels show the complicated structure of the Holy Roman Empire, the reasons for the Protestant Revolt against the Church, and portraits of Pope Leo X, Charles V of Spain, and Francis I of France.

The second division deals with The Protestant Revolt and its leaders which include Martin Luther, John Frederick the Magnanimous, and John Calvin. The text describes the Revolt after Luther had nailed his 95 theses to the Wittenberg Church Door.

The third division describes the weapons of propaganda and persecution as they were used by both the Catholics and the Protestants. The fourth concerns the growth of nationality as it rose in Germany, France, The Netherlands, and in England.

Also included are reproductions of the first illustrated edition of Milton's *Paradise Lost*. Bunyan's *Pilgrim's Progress*, the first complete Bible in English, Martin Luther's German translation of the Old Testament, as well as work by Rembrandt, Rubens, Vermeer, De Hooch, and other 17th Century painters.

WINTER 1953	
General Institutional Average (all students, all curricula)	2.64
(all men)	2.50
(all women)	2.83
General Average (all regular undergraduates)	2.54
(all men)	2.45
(all women)	2.87

Average by Schools and Classes					
School	Fresh.	Soph.	Junior	Senior	Group Average
Agriculture	1.86	2.39	2.81	2.98	2.43
Applied Arts & Sciences	2.02	2.42	2.74	2.93	2.45
Chemical Technology	2.83	2.68	2.69	2.89	2.79
Engineering	2.19	2.36	2.57	2.92	2.44
Home Economics	2.41	2.85	2.97	3.22	2.81
Pharmacy	2.45	2.76	2.80	3.12	2.76
Average	2.16	2.50	2.74	3.00	2.54

HONOR ROLL—(Regular undergraduates)			
Margaret J. Ford	4.00	Allan R. Summerfield	3.78
Beatrice P. Grodahl	4.00	James W. Swanson	3.78
Ardith Haakenstad	4.00	Betty J. Fwson	3.76
Norman Hanes	4.00	Jane Haas	3.76
Edith Hawkins	4.00	Marilyn Meier	3.76
Richard Hill	4.00	James Brudvik	3.76
Sharon Kaspari	4.00	Joanne Christensen	3.76
Orton Larson	4.00	Donald Erickson	3.76
Paula Swain Lawrence	4.00	Lynn T. Fitz	3.76
Caryl Lewis	4.00	Alyce Mitchell	3.76
Stanley Lokken	4.00	Phyllis Wyum	3.76
Dwight Baumann	4.00	Don Zimmerman	3.76
Gayle Bromander	4.00	Harold P. Olson	3.75
Theodore Erickson	4.00	John D. Babinski	3.74
Charles Flaa	4.00	Patricia Carlson Geisler	3.73
Walter Fogel	4.00	Thor Hertsgaard	3.73
Suzanne Minnis	4.00	Dwight Horen	3.73
David Parker	4.00	Vernon Olson	3.73
Wesley Rae	4.00	Gary Hart	3.72
Donald W. Ricke	4.00	Carol Spooner	3.72
Joanne Sampson	4.00	Gerald Geisler	3.71
Paul Johnsgard	3.95	Betty J. George	3.71
Doris J. Anderson	3.94	Marilyn Hunter	3.71
Beverly Ewald	3.94	Mancur Olson	3.71
Michael Fogel	3.94	Helen Larson	3.71
Vivian Larson	3.89	Frank Macekonis	3.71
Dorothy Biever	3.89	Donald Bomblby	3.71
Richard Strand	3.89	Patricia Ebeltoft	3.71
Wayne Kessler	3.88	Peter Metz	3.71
Kurt Kreiselmaier	3.88	Beverly Litzinger Haugen	3.70
Jean Davis	3.88	Wayne Dittmer	3.70
Patricia Herr	3.86		
William Brown	3.86		
Gerald Wyatt	3.86		
Edward L. Adams	3.85		
Arlo Beattie	3.85		
Lenore Dahlberg	3.85		
Wayne H. Slotten	3.85		
John Gilmore	3.84		
Alphonse Gourde	3.84		
Louis Kagner	3.84		
Barbara Widdifield	3.84		
Edwin Zimmermann	3.84		
Milo Bryn	3.83		
William Costello	3.83		
Delbert Moore	3.83		
Eugene R. Schober	3.83		
Robert Van Wechel	3.83		
Victor Wittmann	3.83		
Joann Johnson	3.82		
Beverly J. Akason	3.82		
William L. Rieder	3.82		
Lawrence Shaw	3.82		
Beverley Woods	3.82		
Sonja Blegen	3.81		
Lester Bolmgren	3.81		
Joyce Mohberg	3.81		
William Nelson	3.81		
Robert Sahli	3.81		
Loren Trousdale	3.81		
Michael Herbst	3.80		
David Kaspari	3.80		
Anthony Mendesh	3.80		
Karl Reckenthaler	3.80		
Duane Lemmon	3.79		
Richard J. Berg	3.79		
Orvin Burnside	3.79		
Gerald Erickson	3.79		
Lois Fitzloff	3.79		
Gerald A. Olson	3.79		
Duane Twait	3.79		
Andrew Watt	3.79		
John Wacławik	3.79		
Gail Fitzloff	3.78		

Student Organizations	
Phi Kappa Phi	3.77
Senior Staff	3.66
Tau Beta Pi	3.59
Rho Chi	3.58
Kappa Epsilon	3.53
Edwin Booth Dramatic Club	3.51
Phi Upsilon Omicron	3.49
Kappa Delta Pi	3.44
Alpha Zeta	3.42
Sigma Alpha Iota	3.31
Panhellenic	3.25
Guidon	3.24
Tau Beta Sigma	3.19
Blue Key	3.17
Air Debs	3.15
Farmhouse Club	3.11
Kappa Delta	3.05
Alpha Gamma Delta	3.03
Kappa Kappa Gamma	2.94
Interfraternity Council	2.92
Gamma Phi Beta	2.92
Kappa Alpha Theta	2.92
Kappa Tau Delta	2.91
Kappa Psi	2.82
Alpha Gamma Rho	2.82
Arnold Air Society	2.82
Kappa Kappa Psi	2.80
Kappa Sigma Chi	2.79
Alpha Tau Omega	2.69
Phi Mu	2.64
Sigma Alpha Epsilon	2.59
Theta Chi	2.59
Sigma Chi	2.54
Sigma Phi Delta	2.53
Alpha Phi Omega	2.27
Fraternity Average	2.71
Non-fraternity average	2.36
Sorority Average	2.96
Non-sorority average	2.83

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- Buffet Supper
- "The Crown of Thorns"—a play by the MSTC LSA.
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SPRING SING
The official date for the 17th annual spring sing has been set for May 26, according to Carl Eloffson, director. Entry blanks and letters will be in the mail soon concerning details.

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Stateside by Ol' Ambrose . . . Steve Gorman League Opens April 27; Cobbers, MS Strong

by Sam Lowe

This being the baseball season and the track season, will devote this col to the fine art of playing baseball and participating in the human endurance matches called track.

In the Steve Gorman League, of which the Bison are members, MSTC and Concordia are voted the teams to beat. The Dragons are once more using the capable services of their ace pitcher, Jack Wilcox, who formerly hurled for the Fargo-Moorhead Twins and won 17

Five Vets Answer First Baseball Call

by Sam Lowe

Bison baseball coach Chuck Bentson's initial call for baseball volunteers was answered by some 30 men. Bentson welcomed the men with open arms as he has only five men returning from last year's team.

Gone from the Bison diamond squad of last spring are lettermen Jerry Benshoof, third base, Roger and Rod Fercho, outfield and second base, Chuck Ridder, catcher, Tom Cornforth, outfield, Chuck Thurm, outfield, Ray Paxton, pitcher, Jere Werton, infielder and Kieth Trom, pitcher.

Many of these men are not playing due to ineligibilities or work, while the others are not in school. Returning lettermen are Jerry Friedman, first base, Bob Lauf, Dick Joos, and Jack Nagel, pitchers, and Kenny Reitan, shortstop.

Men trying out for the team after the first call are **PITCHERS:** John Sowa, Nagel, Joos, Lauf, Kermit Quanbeck, Morris Holm and Joel Hunzinker. **CATCHERS:** Orville Compton, Jack Junker, Sam Lowe and Ed Hudseth.

INFIELDERS: Jack Clark, Jerry Friedman, Bill Brady, Jim Hagen, Doug Hanson, Doug Walstad, Dick Wojick, and Kenny Reitan. **OUTFIELDERS:** Bob Conzemius, Bob Nolan, Paul Ruliffon, Al Zaeske, Miles Davis, Jim Brewster, Arnold Ekstrom, Berard Masse, Noel Fedje, Gene Lamski, John Bywater and Rudy Maras.

Bentson has limited the practices of the past two weeks to light workouts indoors and outdoors when the weather permits. The opening practices dealt mainly with getting the men whipped into shape by calisthenics and running. Due to the fact that most of the game to be played this year are doubleheaders, the coach has been working with pitchers who will carry a bulk of the load this spring.

Bentson rates the Moorhead State Teachers and Concordia nines the teams to beat. Mayville Teachers, with their multitude of Red Cap players, is considered to be a strong darkhorse.

The Bison Schedule: (all games doubleheaders except Concordia)
April 27—MSTC (There)
April 30—Wahpeton (There)
May 4—Concordia (Here)
May 11—Mayville (There)
May 14—Jamestown (Here)
May 19—Concordia (There)
May 21—Valley City (Here)

games for a last place team. Wilcox beat Jack Nagel in a 3-0 game last spring. The Bison won the other end of the double-header by a 2-1 count.

Star of the Concordia nine will once more be Ken Severud, their big first baseman. In the two games against the Cobbers last season, the Herd came through with a pair of wins by taking the games by 9-4 and 2-0 counts with Bob Lauf and Dick Joos the winning pitchers.

Darkhorse Mayville has a few members of the fabulous Mayville Red Caps to bolster the team. The Comets will rely on third baseman Joe Bachmier and pitcher Bob Stewart to carry their pennant chances. The Bison split their pair with the hard-hitting Teachers last year as they lost the first game 12-13 but came back strong to take the second one by a 9-8 score.

Jamestown College is without their pitching ace Joe Ford, who suffered an attack of rheumatic fever during the basketball season. The Herd beat Ford last year but the Jimmies took the second game and also tied for the conference.

The Wahpeton Science team, rated a little lightly in the League, can be another strong team. They are weak in the hitting department but Dean Kampschorer's strong left arm can be a deciding factor in a few games. The Bison swept both games of their pair with the Wildcats by identical 4-3 scores as Kenny Reitan stole home twice for the deciding runs in the last of the seventh.

Valley City is not expected to be much stronger than they were last year when they won only two games, which were both over the Bison and ruined any chance of the Bison taking their first League trophy.

And last, but not least, is the seventh team in the Conference, the North Dakota State Bison. Due to the lack of experience in most of the positions, the Herd is not rated too high among the experts but can be an outside chance of taking the League championship.

And so for baseball. A bit slower game than football and basketball, perhaps, but does provide many a fan their money's worth when it comes to thrills.

★ ★ ★

Ron Zottnick, a former all-around athlete from Edgeley, left Sunday for Cambridge, Maryland where he will go into spring training for the Oleon, Maryland, team. The team is a member of the New York Yankee chain, in the Class D circuit.

★ ★ ★

Bill Brady, trying out for the second base position on the Bison varsity diamond nine, played for the Mayville Red Caps when they took the state championship two years ago. Brady was only 16 at the time.

★ ★ ★

Forgot to mention last week that the third member of the Straying Six, Roger Wolf, has re-enrolled in school. Keep an eye on this shifty little halfback next fall. He can go.

★ ★ ★

Mac Wenskunas issued almost forty football uniforms for the oncoming spring football. Just can't stand to see that grass turn green.

NDAC Cindermen Drop Close Indoor Meet To U.

The North Dakota State Bison opened the 1952 season by dropping a close four point meet to the University of North Dakota at the U indoor track. The members of the Bison squad were far from disappointed in their showing as they piled up 45 points while the Sioux took the top honors with their 49 counters. MSTC, the only other team participating, took a distant third with 24.

Dale Wallentine, freshman dash man, took top scoring honors as he took three firsts for 15 points. The blonde football halfback took the low and high hurdles and the broad jump.

It was the lack of weight men which hurt the Herd's chances. Bob

Kubas, considered a sure bet to take a first in the discus and shot putt, was out of action due to an injured foot. The big Dickinson athlete is currently carrying the bulk of the Bison weight men.

The fact that the Herd took only four first places but still came out of the meet with their 45 points shows that they are not lacking in depth.

Other scoring men on the Bison team were Jim Brogger, 7, as he won the two-mile event and placed second in the one-mile; Dick Cortese, 6, Guy Enabit, 6, Clifford Moore, 4, Jerry Goetz, 4, Gene Gamache, 2, and Tom McLeod, 1.

Track mentor Erv Kaiser was well pleased with the showing of

his proteges in the meet and had high praise for all members. He pointed out the fact that Ronnie Thompson, NDU dash sensation, barely edged out Delbert Moore in the 60 yard dash. Kaiser hopes that Moore will be able to develop a faster start, which was the cause for his loss to Thompson.

Twelve men currently make up the track squad and the prospects for the coming meets are fairly good. The lack of middle distance men and weight men are the serious factors.

The remaining schedule for the Bison thinclads includes:
April 25—Aberdeen Relays at Aberdeen.

May 2—Grand Forks Invitational
May 9—NDSC Invitational Meet
May 16—State College Meet at Grand Forks.

May 22—Conference Meet at Sioux Falls.

May 28—Open Date.

WAA Group Travels, Officials Qualify

Last Saturday, April 11, six Women's Athletic association members and their advisor, Miss Elsie Raer, attended the All-College Sports Day at Dickinson Teachers College.

The girls attending were Marjorie Stoa, Norma Skaar, Dorothy Ryan, Muriel Melby, and Beverly and Enid Bowman. The sports day was open to WAA members from colleges throughout North Dakota.

The day's activities included sports, relays, and mixers.

Joanne Marquart and Ruth Gaebe earned National Officiating Ratings in Basketball after passing national basketball examinations. This makes them eligible for officiating at women's basketball games anywhere in the United States and entitles them to charge a fee.

To achieve this rating, one is required to pass two tests, one written and one practical. Marks of 85 percent and 82 percent must be on the practical and written tests respectively.

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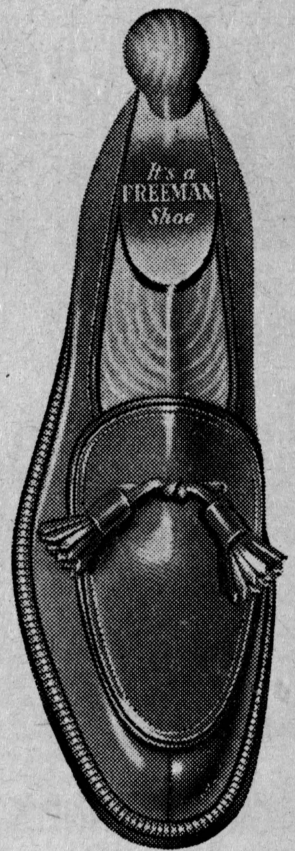
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Home Economics Foods Department Gives Appointments

Wednesday, April 15, the Foods and Nutrition Department had a presentation tea for department seniors. Appointments were given to those seniors who had made application for dietetics internships at hospitals of their choosing. Mothers and friends of the seniors were invited.

★ ★ ★

Dr. John Christian, Program Planning Specialist from the United States Office of Education, Washington, D. C., will be a campus visitor this weekend, April 16-18. While here she will work with the state supervisors on the Home Economics education teacher-training program. She will also visit the Enderlin, Casselton, and West Fargo teacher-training centers.

★ ★ ★

The recent FHA Convention April 10-11, honored 35 honor roll chapters and conferred 30 state home-makers decrees. Honorary memberships were conferred on Miss Elvira Smith, Foods Department head, Miss Minnie Anderson, head of the Textiles and Clothing Department, Ernst Van Vlissingen, professor of Music, and Miss Evelyn DeKrey, freshman and past state FHA president.

★ ★ ★

Several faculty members of the school of Home Economics plan to attend the North Dakota State Home Economics Association convention in Grand Forks this weekend, April 17-18. Also attending the convention is Barbara Arneson, Home Ec Sophomore, state winner of the "Make It Yourself With Wool" contest. Mrs. Pauline Park Wilson Knapp, director of Merrill-Palmer School, Detroit, Michigan, and Miss Aagot Raaen, of "Measure of My Days," will be guest speakers at the convention. Irene Crouch of the Extension Staff, is President-elect of the NDSHEA.

Teachers attending the convention are Miss Minnie Anderson, Miss Emily Reynolds, Miss Elvira Smith, Miss Mildred Wharton, Miss Eileen Satre, Mrs. Laura Oakey, and Dean Clara Cerveny.

Schacher, Johnsgard Begin Research

John F. Schacher, senior zoology student at NDAC, has been appointed research assistant to Dr. W. D. Beaver, School of Tropical Diseases and Medicine, Tulane University, New Orleans, La.

The appointment, made by E. C. Faut, dean of the school, will consist of research in human parasitology from September 1953 to September 1954. In addition to assisting Dr. Beaver, Schacher will do graduate work toward a master's degree in parasitology.

Schacher's research project at NDAC was contributory to his receiving the appointment; he had made a survey of parasites of small mammals of North Dakota.

Schacher has also served as medical laboratory technician in the

student health center of NDAC for the past two years.

Paul Johnsgard, NDAC zoology major, has received an appointment to do research on the waterfowl of the Columbia River basin from September 1953 to September 1954.

The appointment, extended by Dr. H. L. Eastlick of Washington State College, Pullman, Washington, carries a stipend of \$1,700 for the one-year period, and will enable Johnsgard to enroll in the graduate school of the College to work toward a master's degree in wildlife management.

A wildlife study of North Dakota which Johnsgard completed the past year, was contributory to his new appointment.

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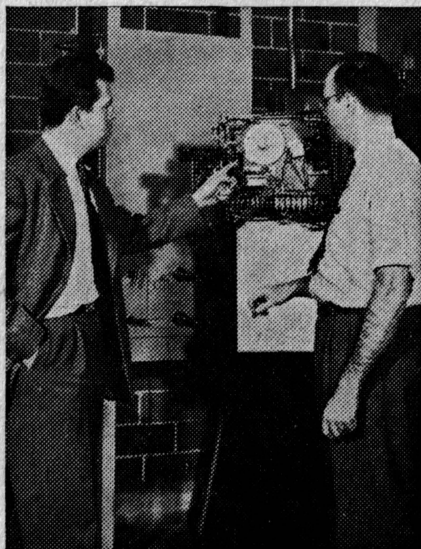
Do you think of instrumentation as applying only to work in electricity and electronics?

Or would you also include problems in chemical processing, materials of construction and materials handling, as well as application of equipment — both mechanical and hydraulic—for measurement and control systems?

At Du Pont, instrumentation is applied to widely diverse areas of manufacturing operations. It calls for many different technical backgrounds. In a typical instrument group there may be men whose formal training has been in mechanical, chemical, electrical or metallurgical engineering, or in physics, etc.

Instrumentation is becoming more and more important in the chemical industry. In fact, many of today's processes and products would not be possible without modern measurement and control systems. The trend toward continuous processes means challenging and constantly increasing opportunities for instrumentation men.

Du Pont's instrument program includes research, development, design, and supervising installation of process control equipment. Some of the work is done in the central Engineering Department at Wilmington. However, most of the major plants across the country now have their own organized instrument groups.



Fred R. Struder, B. Metal W., Rensselaer P.I. '50, examines a pressure strain recorder with Allen R. Furbeck, E.E., Princeton '39.



Richard G. Jackson, B.S. in Ch.E., Columbia '42, and Gregory L. Laserson, Ph.D. in M.E., Columbia '49, test an infrared gas analyzer.



Paul D. Kohl (left), B.S. in M.E., Purdue '46, checks the assembly of an experimental control instrument.

So you may visualize the scope and diversity of the work, here are examples of instrumentation recently developed and designed by Du Pont technical men:

1. A device to measure flow of approximately 30,000 lbs. per hour of gas at more than 10,000 p.s.i. To give 1.2% accuracy and be responsive to flow-changes of five cycles per second.
2. A device to monitor continuously 1200 similar temperatures. Equipment to record temperature and sound alarm at a deviation of 1°C. from desired point.
3. An automatic control system to maintain a predetermined pressure-temperature relation in a large-batch autoclave during spontaneous reaction between two chemicals.

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I Played The Fool Bill Darnel
The Widow Walk Damita Jo
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