

# THE SPECTRUM

VOLUME LXII

STATE COLLEGE STATION, NORTH DAKOTA. JUNE 4, 1948

NUMBER 30

## 298 TO RECEIVE DEGREES MONDAY

## Campus Voters Up Student Activity Fee

### NDAC Students Honored At Annual Honors Day Convo

Ten students were elected to Senior Staff, women's honorary group, and annual awards and scholarships were presented by Doctor John Longwell at the thirteenth annual Honors Day convocation sponsored by Blue Key and Senior Staff and held last Thursday in Festival Hall.

Bob Owens, president of Blue Key, was master of ceremonies at the convocation at which the following women students were named to Senior Staff: Gloria Bachman, Jean Hoverson, Ardyce Toohy, Joyce Gackle, JoAnn Herigstad, Lara Kristjanson, Mary Jane Low, Beverly Marchand, Anne Stegner, and JoAnn Zimmermann. Students receiving awards, their respective schools and awards are as follows:

#### AGRICULTURE

Marvin T. Jones, Dakota Chapter of Alpha Zeta Award; Wesley Marton, Danforth Agriculture Freshman Award; Lyle E. Nelson, F. H. Peavy-Van Dusen Harrington Co. Undergraduates Scholarship Fund; Robert Gehring, Land O' Lakes Scholarship; Gordon Tollerud, San Dobervich Memorial Award; Harry A. Bruhn, Sears Roebuck Agricultural Foundation Scholarships; Percy McLean, Swift and Co. Essay Contest Award; Raymond Schnell, Union Stockyard and Transit Company of Chicago Award; Lyle Nelson WNAX Scholarship.

#### HOME ECONOMICS

Dorothy Jeanne Winslow, Joyce Cunningham, Danforth Foundation Fellowships; JoAnn Herigstad, De Lendrecie Scholarship; Ann Stegner, Emma K. Herbst Scholarship; Shirley Chaska, Phi Upsilon Omicron Alba Bales Award; Lydia Smith, Lois Vangerud, Service Fellowship in Retailing; Joyce Cunningham Tryota Club Award; Ruth Watson, WNAX Scholarship.

#### CHEMICAL TECHNOLOGY

Zoe Nelson, Richard Porter, Douglas Smith, and Frederick Kingdon, Forman, Ford and Company Award; Roland Nordine and Marshall Wilson, Minneapolis-Honeywell Regulator Company Fellowships; Roland Nordine, Nuodex Prize.

#### ENGINEERING

Howard McCauley, American Society of Civil Engineers Award; Ray Amundson, Robert Beals, and Robert Maassen, North Dakota Association of Architects Award; Ronald W. Nelson, Tau Delta Pi Award.

#### PHARMACY

Owen Jones, Beta Sigma Chapter of Kappa Psi Scholarship; Lucille Manning, Iota Chapter of Kappa Epsilon Award; Owen Jones and Douglas Kepner, Kappa Chapter of Rho Chi Society Awards; Lucille Manning, Lehn and Fink Gold

Medal Award; Owen Jones, Douglas Kepner, Joel Nelson, Robert Krenelka, North Dakota Pharmaceutical Association Awards. ...

#### GENERAL

Virginia O'Neill, American Association of University Women's Scholarship; Harold Zweber, Blue Key Master Freshman Award; Charles Dickens, Blue Key Scholarship; Dorothy Duvall, Chapter E—P.E.O. Memorial Award; Mary Ellen McGregor, College Panhellenic Scholarship; Keith Schollander and Virginia O'Neil, Elks Scholarship; Wanda Roberts, Irene Leimbacher, Memorial Scholarship; Jane Winslow, Jaredine Thompson, Nichols Memorial Scholarship; James Leary, Knights Templar Educational Foundation Scholarship; James Slingsby, Annabelle Schmidt, Marvele Bovaird, Evangeline Browning, Eloda Gust, Donald Myrdal, Frank Orthmeyer, Wanda Roberts, Florence Book, Margie Slingsby, Russell Iverson, Ernest Iverson, Robert Matthews, Clair Rice, Jack Enger, Eugene McLaughlin, and Mary Severson, Laverne Noyes Scholarship; Ruby Johnson, Norman B. Black Scholarship; Mildred Bednar, NDAC Women's Club Scholarship; Sharon Erickson, Senior Staff Award; Zoe Nelson, Senior Staff Scholarship; Lyle Nelson, Walter L. Stockwell Award; Jean Hoverson, Women's Senate Award; Marvella Bovaird, Women's Senate Scholarship.

### John Hest Heads Kappa Delta Pi

Election of John Hest as president, Ed Ehli as vice president and Jeanne Winslow, Joyce Gackle, Jane Winslow and Glenn Walrath as treasurer, secretary, historian-reporter and counselor, respectively, terminated the formal activities of Kappa Delta Pi on the NDAC campus for the school year.

The Tuesday, May 25, meeting in Old Main Lounge made Glenn Walrath, mathematics instructor and charter member of Gamma Delta chapter of this honor society in education, counselor to serve a two-year term. Mr. Walrath had also served in a temporary capacity as counselor since the honor society reactivation in February of this year.

Replaced in the executive council were: Gloria Crews, president; Ardeen Johnson, vice-president; Loretta Swisher, secretary; Tom Corrigan, treasurer; and Ray Erwin, historian-reporter.

An executive committee meeting of old and new groups Thursday, June 3, initiated James Holwell senior in agricultural education, as the last member to be accepted for the 1947-48 year.

### Stevens To Get Honorary Award At Ceremonies

Approximately 298 NDAC students will receive bachelor of science degrees at graduation ceremonies here next week. The group, one of the largest in history, will be feted at baccalaureate ceremonies Sunday and graduation ceremonies Monday. Detailed programs for both services appear elsewhere in this issue.

Included in the awards will be an honorary Doctor of Science degree to O. A. Stevens, associate professor of botany at NDAC. A committee made up of Dean H. L. Walster, Dean R. E. Dunbar and A. H. Parrott made the recommendation.

Stevens has served for 23 years at the head of the NDAC seed laboratory and is the author of a long list of publications in his field.

Kenneth Johnson, general counsel for the national Security resources board in Washington, will be the main speaker at the graduation ceremonies Monday. Rev. Lael Westberg, executive director of the Lutheran Student foundation, will give the feature address of the Sunday baccalaureate ceremonies.

A list of the candidates follows.

#### AGRICULTURE

Robert Amstrup  
Kirk Bellows  
Royal Berstler  
Arnold Bjorlie  
Andrew Bosch  
Francis Bosch  
Charles Bower  
Raymond Buchanan  
Lawrence Bushey  
Rawlynn Busche  
Arthur Carlson  
Llewellyn Christenson  
Wayne Colberg  
Dell Colwell  
Thomas Conlon  
Douglas Dettmann  
John Donnelly  
Raymond Erwin  
Elmer Fragott  
Floyd Fredenburg  
Jerome Gleesing  
Rudolph Gysland  
Parnell Hagen  
Ralph Harmon  
Donald Horne  
Roy Hovey  
Richard Ilse  
Orville Jacobson  
Ardee Johnson  
Ralph Johnson  
Randell Johnson  
Clayton Kingston  
Warren Knauss  
Calvin Konzak  
Peter Konzak  
Robert Lambourn  
Merle Light  
Arne Lochen  
Curtis Loucks  
Lawrence Ludtke  
Archie Martindale

(Continued on page 8)

### Lota Junge Gets Post On Programs Board

NDAC students voters delivered an overwhelming stamp of approval to four initiated measures and named Lota Junge to the vacated junior post on the Board of Campus Affairs in an election held yesterday on the campus.

With main concern centering around the securing of 500 votes the number needed to make the election official, approval of the four changes was anti-climax, as over 570 voters went to the polls.

The proposed increase in the student activity ticket received a 402-165 okay, thus making the activity fee \$7 in place of the previous \$5. Each of the amendments to the students constitution were approved by 5-1 majorities. The amendments were: (1) That provision be made for a permanent Board of Student Union Directors which shall elect one of its student members as a voting representative and commissioner in the Student Commission; (2) That provision be made for an elected representative of the newly-organized pep-club, the Rahjaks, to be a member of the Student Athletic commission; (3) That provision be made to change student body election days from Thursday to Wednesday.

Miss Junge defeated Jean Hoverson, 315-225, to secure the junior post on the Board of Public Programs.

### Commencement Exercises --

#### THE BACCALAUREATE SERVICES

Sunday, Three O'Clock, Festival Hall

Prelude—"Onward, Ye Peoples" ..... Sibelius-Lefebvre  
Edith Sherwood Cleveland

Processional—"March in C" ..... Spinney  
Edith Sherwood Cleveland

Invocation ..... The Very Reverend Arthur G. Barnhart  
Dean of Gethsemane Cathedral, Fargo

Hymn—"Dear Lord and Father of Mankind" ..... Whittier

Scripture Reading ..... Dean Barnhart

Prayer ..... Dean Barnhardt

"Send Forth Thy Spirit" ..... John Schutky

The North Dakota Agricultural College Chorus

Ernst Van Vlissingen, M. Mus. E., Director

Sermon—"This Will I do" ..... Lael H. Westberg

Executive Director, Twin City Lutheran Student Foundation

Minneapolis, Minnesota

"Israel, Hope in the Lord" ..... Gottfried Homilius

The North Dakota Agricultural College Chorus

Benediction ..... Dean Barnhart

Recessional—"March in E Flat" ..... Driffl

Edith Sherwood Cleveland

#### COMMENCEMENT EXERCISES

Monday, Ten O'Clock, Festival

Official Representative of the State Board of Higher Education

The Honorable Roy Johnson

Processional March ..... Richter

The North Dakota Agricultural College Concert Band

Edward James Schroepfer, M.M., Director

The Star Spangled Banner ..... Key

Invocation ..... The Reverend Emerson J. Sanderson

Pastor First Congregational Church, Fargo

Address—"Faith in Freedom Under Law" ..... Kenneth D. Johnson

General Counsel, National Resources Board

"Scene from a Campanile" ..... Frangkise

The Concert Band

Presentation of the Graduating Class by the Deans of the Schools ....

Conferring of Degrees ..... John Harwood Longwell, Ph. D.

President of the College

"The Yellow and the Green" ..... Minard-Putnam

Benediction ..... The Reverend E. P. Simon

Pastor of the Fargo Moravian Church

Recessional—"Pomp and Circumstance" ..... Elgar

The Concert Band

Commencement Marshalls ..... Christian Jensen, Ph. D.,

Ray Theodore Wendland, Ph. D.

**Congratulations and Best Wishes to the Graduating Class.** We have enjoyed every opportunity we have had to serve you while you've been in school, and we shall always be ready to serve you again when the opportunity is afforded.

## Powers Coffee Shop



# Hill Gets Blue Key Doctor of Service Degree

## Ag Clubs Give To Union Funds

Saddle and Sirlon, Agriculture Service club, and Alpha Zeta, Agriculture honorary fraternity, were announced as first campus organization donors to the student Union building fund this week. Their donations were in the amounts of \$100 and \$50 respectively. The Board announced that it is now in a position to accept payment on all amounts pledged to date and that new pledges or donations may also be made to Mr. F. F. Skinner, Board treasurer and college business manager.

## Legler, Dultima 4-H Delegates

Victor Legler and Richard Dultima, sophomores in agriculture, have been chosen as the two state representatives from North Dakota to attend the National 4-H Club congress in Washington, D. C. this month. They expect to leave shortly after the close of the spring term and will spend about three weeks in convention at Washington.

## Pan-Hel Honors Seven Co-Eds

Panhellenic council, annual sponsor of a scholarship recognition service, presented awards to six deserving sorority members and to an Independent Students Association student at ceremonies held in the Little Country Theatre last Tuesday evening.

Those honored were Ruth Watson, Alpha Gamma Delta; Eunice Lundquist, Gamma Phi Beta; Dorothy DuVall, Kappa Alpha Theta; JoAnn Zimmerman, Kappa Delta; Jean Hoverson, Kappa Kappa Gamma; Gloria Crews, Phi Mu; and Dolores Barker, Independent Students Association.

Ann Stegner, newly elected president of Panhellenic council, presided over the presentations. Other new officers of the council are JoAnn Zimmerman, secretary; Joyce Gackle, treasurer.

### BISON ANNOUNCEMENT

Officials of the Bison year-book have announced that the Bison office, Room 120 Science Hall, will be open every day next week and that students desiring to obtain their annuals should procure them before the end of next week.

Announcement was also made that persons or organizations having outstanding accounts with the Annual should endeavor to close them as soon as possible.

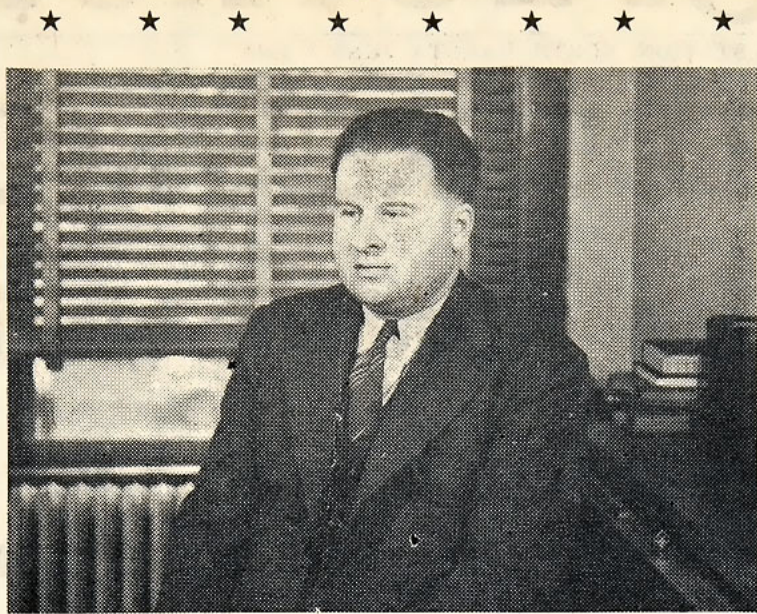
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A DOCTOR OF SERVICE DEGREE was awarded to Professor A. Glenn Hill, chairman of the Mathematics department, at a banquet in his honor last night. The degree, an award conferred by Blue Key fraternity, is annually made to a man whose service to the college has been particularly outstanding during the preceding year.

Professor Hill's work the past year, in addition to chairmanship of his department, has included presidency of the Student Union board, faculty membership on the Board of Publications, membership of the YMCA Advisory board and the Methodist Student Foundation board, and senior faculty advisory position in Alpha Phi Omega service fraternity of Scouting.

Guests at the banquet besides Professor Hill included Dr. J. H. Longwell, Dean C. A. Sevrinson and other faculty advisors, past awardees of the degree of Doctor of Service, and representatives from Rotary, Kiwanis, and Lions local service clubs.

The degree in past years has been awarded to the following: Dr. C. C. Putman, Dr. L. R. Waldron, Dr. C. B. Waldron, Supt Kraft, Prof. O. A. Stevens, Dr. Bolley, Dean A. E. Minard, Dr. O. O. Churchill, Dr. C. I. Nelson, Dean H. L. Walster, Prof. A. G. Arvold, Dr. W. C. Hunter, and Mr. Ernst van Vlissingen.

## Exam Schedule--

Tuesday, June 8 — 8:00-12:00 ..... all regular 11:00 classes  
1:15-5:15 ..... all regular 8:00 classes  
Wednesday, June 9 — 8:00-12:00 ..... all regular 9:00 classes  
1:15-5:15 ..... all regular 10:00 classes  
Thursday, June 10 — 8:00-12:00 ..... all regular 3:05 classes  
1:15-5:15 ..... all regular 1:15 classes  
Friday, June 11 — 8:00-12:00 ..... all regular 2:10 classes  
1:15-3:15 ..... all classes not indicated above

All courses of four credits or more and all courses meeting on MWF will use the first half of the period allotted to the regular hour and courses meeting TTh will use the last half of the same period.

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## ROTC Awards Commissions To 17 NDAC Military Seniors

Reserve commissions were awarded to seventeen ROTC seniors by Dr. J. H. Longwell at exercises last Tuesday which also featured a battalion parade in honor of the

seniors and presentation of the annual ROTC awards.

ROTC seniors who received commissions were.

### AIR FORCE RESERVE

Kermit Davison, Robert Feeney, Leonard Geiszler, Robert Owens, Harry Paper, Robert Smoot, and James Sparks.

### ARMY OF THE UNITED STATES RESERVE

Paul Brostrom, Robert Cook, Roy Hovey, George Keena, Wallace Bergdahl, Warren Knauss, Carl Lee, Lyle Ritchie, Floyd Robb, and John Williams.

Lieutenant Colonel Dana Smith, former president of the N. D. chapter of the ROA, was the principal speaker. Mr. R. A. Pierce presented the Reserve Officers Association Saber and the Mark E. Heller Saber was awarded by A. H. Parrott.

Cadets receiving awards and their respective awards were: Robert L. Owens, Reserve Officers' Association Saber; Carl A. Lee, Mark E. Heller Saber; Harry W. Paper, Air Force Association Medal; Floyd W. Robb, Saber Manual Award; John J. Berky, PMS&T Trophy; Gordon L. McLean, Manual of Arms Trophy; Wayne J. Schmidt, Scabbard and Blade Medal; Carl A. Lee, Gilbert C. Grafton Post, American Legion Trophy; (awarded to outstanding Cadet Company) Robert A. Cook, President's Trophy; (awarded to outstanding Cadet platoon) Robert L. Berg, Bison Trophy; (awarded to outstanding Cadet squad).

Cadets receiving the "Sons of the American Revolution 'Minute Man'" medals awarded to the outstanding first year elementary cadet in each platoon were: Ronald A. Nelson, Darold Ulrich, Herbert Paul, Robert Kingbeil, Walter Biggs, Gerald S. Thurnau, John Hartmann, David C. Olson, David Litten, and Russell Parsons.

## Fall Plans Set By Commission

Preliminary plans for activities next fall were made at the last Student commission meeting of the school year Tuesday night, according to Paul Bibelheimer, president of the commission.

An all-college dance, free to all students, is scheduled for Saturday night, Sept. 18, following Orientation week.

Homecoming committee chairmen named were: Bob Woods and Jim Johnston, parade; Jim Stine, homecoming dance arrangements; Joyce Gackle, queen selection; Don Wischow, publicity; Ernest Johnson, dance ticket sales; and Jerry Bolmeier, floats and house decorations.

Working in conjunction with the commission on orientation and homecoming arrangements will be the Rahjahs.

## Annual Union Board Meeting Slated

The annual meeting of the NDAC Memorial Student Union corporation will be held in Festival hall at 2:00 p.m. Monday, an announcement from the Union board stated this week. All interested students, faculty, alumni, and friends are present members of the corporation and are invited to attend. Various reports will be given concerning progress thus far on the building fund, building plans, alumni support and other items of interest to corporation members.

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## Career Opportunities Opened In Expanded U. S. Air Force

Immediate career opportunities in the challenging field of aeronautics are open to June graduates under the United States Air Force's expanding program of Aviation Cadet Pilot training, it was pointed out today by Maj. S. V. Burke, Assistant Professor of Military Science and Tactics for Air.

College men today have an exceptional opportunity to obtain free training in a field that will become increasingly significant as America and the world progress in the Air age, Maj. Burke said. Pilot training with the Air Force leads directly to an officer's commission and active flying duty, and presents an excellent opportunity for a career through commissions with the regular Air Force for top graduates of the course.

Men who want to fly still may qualify for the class which begins training on July 1, Maj. Burke pointed out, if their applications are put in immediately. The Air Force still has room for approximately 400 more Aviation Cadet Candidates in the July class, in which 1,040 men are scheduled to begin training at three USAF bases in Texas. An additional 1,300 will start their instruction in October with even larger classes scheduled for March, July, and October of 1949.

Flying training with the USAF is open to all unmarried male citizens between 20 and 26½ years of age. Applicants must have had a minimum of two years of college or be able to pass an equivalent educational examination, and must be in excellent physical condition. Those who apply will be required to furnish transcripts of their college credits, pass a physical examination and complete successfully the Air Force qualifying test designed to measure their aptitude for flying.

Successful graduates of the 12 month pilot training program will receive their pilot's wings and commissions as Second Lieutenants of the Air Force Reserve, and will earn up to \$336 a month, to start. If they marry following graduation from the USAF program, they will receive up to \$372 per month. Up to five percent of each Aviation Cadet class will be offered Regular Air Force commissions immediately upon graduation. Additional opportunities to qualify for regular Air Force commissions will be available during the regular tour of duty.

Basic flight training is given in single-engine AT-6s. Graduates receive either advanced single-engine instruction in P-51 or P-47s, or advanced multi-engine training in B-25s. Top single-engine students receive jet training in two-place training P-80s.

Information on the program is available at any US Air Force base, or at the nearest recruiting office, or may be obtained by writing directly to the Chief of Staff, United States Air Force, Washington 25, D. C., attention: Aviation Cadet Section.

## Student Union Board Elects

Reorganization of the Student Union Board was accomplished last week when newly elected student members were seated. Walter Gill, LeRoy Loder, Carl Lee, and Al Golberg are new student members. Re-elected to serve another term office were: President Glenn Hill, Vice-president Ben F. Meinecke; and Treasurer F. F. Skinner. Al Golberg was elected secretary. Carl Lee was elected to the new student commission post open to a representative from the student union board.

## Plans Completed For Next Year's Religious Week

The dates have been set, Christian leaders have accepted invitation and the committee heads have been selected for next Fall's Religious Emphasis Week on the campus. On November 8, 9, 10 and 11 four outstanding Christian leaders will meet with NDAC students in seminars, class room, and personal conferences and at luncheons, organization meetings, dorms, and convocation.

The leaders will be Dr. Harold A. Ehrensperger, Rev. Thomas V. Barrett, Rev. E. S. Hjortland, and Father David Boyle. Ehrensperger, from Nashville, Tennessee, is Editorial Secretary of the Student Department of the Board of Education of The Methodist Church. Barrett is Executive Secretary of The National Council's Division of College Work of The Protestant Episcopal Church and is located in New York City. Hjortland is Pastor at Central Lutheran Church in Minneapolis and Father David Boyle is Chaplain at St. John's Hospital here in Fargo and at one time instructor at NDAC School of Religion.

Student committee heads for Religious Emphasis Week are Clyde Bachman, general chairman; Glenn Edin, program chairman; Kenneth Olson, finance chairman; Karl Kereluk, publicity chairman; George Strother, assistant publicity chairman; Bob Kline, contact man; and Beverly Marchand and Jeanne Winslow, hospitality co-chairmen.

## Amsden Handles Many Copies Of This Year's Bison Furrows

13,000 copies of six issues of the Bison Furrows, NDAC agriculture and home economics student publication, will soon be the record of Dean Amsden agriculture junior and Furrows circulation manager. Handling the six issues in the two years since the magazine reorganization in February, 1947, Amsden will have personally supervised circulation of 3,000 copies on the campus and the mailing of approximately 10,000.

Amsden's sixth issue, the fourth and last of the current school year, will be circulated soon after the end of school in June to closely follow the state Future Farmers of America convention on the NDAC campus, June 22nd-25th. This fourth issue will set a record for the current staff as no other staff has published four issues a year in the eight-year history.

Completely financed by local, state and national advertising, the Bison Furrows reports student activities and interests in agriculture and home economics. The 10,000 mail circulation figure represents free copies to 4-H and FFA state organizations, all high schools, home economics departments, extension and demonstration agents, livestock breeders, advertisers and other agricultural colleges in the United States. Current plans seek to augment advertising revenue from other sources. Printing costs, like those of other NDAC student publications are threatening to destroy the service value of the Furrows.

Heading the list of Bison Furrows staff for the year was Ray Erwin, graduating senior in agriculture, as editor. Erwin, photographer for the Bison and Spectrum, did most of the photographic work on the magazine, including the cover. Naomi Schuricht, graduating senior in home economics was associate editor. Lester DeKrey, junior in agriculture, was business manager. Others were: Dean Amsden, circulation manager; Lois Bang, Dixon Best, Harry Bruhn, Shirley Chaska, Gladys Fossum, Kenneth Griswold, Calvin Konzak, Mary Kummeth, Calvin Kurtz, Lyle Nelson, Kenneth Olson, Kathryn Skerik, May Swift, Betty Watschke, Don Wischow, JoAnn Zimmerman, Florence Biggs, Phyllis Gustafson, LeRoy Johnson, Wesley McCoy, Paul Sheel, Marge Sommerdorf, Anne Stegner, Bill Stegner, Lewellyn Tewksbury, Anne Whitman, Kyle Miller, Helen Crews, Gordon Tollerud, Russell Calderwood, and Cleone Nybeck.

Harry Bruhn and Kyle Miller will head the magazine in the 1948-49 school year as editor and business manager.

## Beta Sigma Active On NDAC Campus

A little known but active group on the NDAC campus is about to finish its first year of organization. Beta Sigma, band fraternity for women, female answer to the all-male Kappa Kappa Psi band frat.

Dorothy Anderson presently serves as head for this group. Other officers include as vice-president, Viola Vassler; secretary, Marjorie Egenstrom; treasurer, Joyce Barker; and publicity chairman, Sallyjane Lindemann. The group served in the coke and hat-check concessions at the recent Band dance and has served refreshments after band broadcasts.

Purpose of the group is "To foster a closer relationship and cooperation within the Gold Star band; to cooperate with the director and the Kappa Kappa Psis in making a better band for the school, and to raise the standard of the music at NDAC".



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# Sioux Cop Top Honors At State Meet

## Paulsen's Pencil---

By JOHN PAULSEN  
**The Fortunate**

thing about looking forward to athletics at NDAC next year is that Herd teams have few others places than up towards which to turn. The Bison have been down in the doldrums now for two years, but like Mr. Mack's Philadelphia baseball club, better things should come.

Howard Bliss will have a lot of question marks when the team begins gridiron operations in the fall. Whether the AC recruiting department can pick up a capable end, whether the Bison tackles—Milton Resvick, Dick Hanson & Co. will take up where they left off, whether Steve Vujovich—in Stan Kostka's dog house last year—will be effective under Bliss, whether Bob Roy and Earl Sibley can handle pivot duties, whether Don Bredell's leg—the injury to which forced him out of action early this year—will hold up, whether the Bison can find a fullback to replace Dennis Drews who appears headed for another backfield post, whether the AC recruiting department can pick up a couple of top-flight backfield men one of whom will have to take over the passing chores of Bob Heer—all these questions and more loom in the faces of Bliss and his assistants in the department. Nevertheless, despite the fact the Herd is shy on manpower things look better now than they did at the end of the last football season, and the possibilities that the Herd may begin athletic operations successfully next year are improving daily.

Chalky Reed loses two of his five regulars next year—Paul Brostrom and Tom Corrigan. However, Art Bredahl, Nick Vujovich, and Jimmy Johnston will return and Packy Schafer and Bob Geston both saw enough action last year to effectively step into regular posts. Then, too, the Bison are angling for an effort to end the ceifer dwelling antics the team has been pulling the past two years.

However, both in 1946 and 1947, Reed from the very beginning adopted a line of strategy that the best way for the Bison to advance was to feed the ball to Brostrom and let him cut loose. Brostrom seldom failed, but Reed's strategy consistently failed because the rest of the club—apparently imbued with their master's belief in the red-head hadn't developed into especially capable basket makers and could hit only remarkable inconsistency. Well, next year Reed finds his ace point getter gone, and it's questionable indeed as to just how the Herd will fare. Reed is confident that with Brostrom gone his remaining crewmen will improve and develop into an all-round club with lots of scoring balance. Perhaps. Nevertheless, while it appears the Bison have plenty of playing talent, things remain doubtful indeed as the cage season looms ahead.

### In Track and Field

things loom slim indeed, and Bison track coach E. E. Kaiser, who did reasonably well last year on the strength of Jerry Mulready's strong right arm and an occasional first place from some of the rest of his squad, now relies only

on Norris Johnson. Next year, the Bison can look for little improvement.

### It's Interesting

to note that several players who left various Bison squads last year may be back in action next season. Bill Gallagher and Bruce Warner, a couple of popular cagers who quit Reed's team last season just after Christmas, may be back playing next year, to the delight of most Bison spectators who thought the two deserved more than they got last year in the way of playing time.

Steve Vujovich, who was fired from Kostka's football team last fall, has been working out under Bliss during spring drills in excellent style, and the big So. St. Paulite who played effectively enough to warrant honorable mention all-conference honors in 1946, may help plug up the line situation which looms as nothing more than questionable.

One re-acquisition the Bison could well afford to try desperately to make for next fall would be that of Fred Troubridge. Troubridge was a Bison mainstay before the war and a capable performer for the Bison gridiron club in 1946. However, difficulties with the coaching staff and the need of employment to support his family kept the left-hander out of action last year. It's believed, however, that if the brilliant passer could make satisfactory working hour-arrangements he would be willing to play, thus giving Bliss and the Bison a most proficient passer and brilliant field general.

A promised thorn in the Bison side next year, though, is likely to be Charlie Basch, whose gridiron exploits here in 1946 made history. Basch has had a wild career since moving to Grand Forks early in 1946 as the only So. St. Paulite out of a host of the city's residents playing in North Dakota (the rest were at NDAC) to begin at North Dakota University. After two week's practicing with the Sioux, the desire to be with his friends at Fargo prompted the speedster to come to Fargo and begin practicing with the Herd—a move that just about started total war between the two schools. With the Bison, Basch ran wild and Bison rooters began to envision the revival of the glorious days of Cy Longsbrough, Fritzie Hanson, and Ernie Wheeler. However, following the completion of the season, Basch decided to try his luck at professional baseball and as he inked his name to a Boston Brae contract, ended all chance of his ever playing ball again in the North Central conference.

Back at NDAC last fall, Basch spent his time helping out E. E. Kaiser with the Baby Bison. Still planing to join a Brave farm club this spring, Basch decided to enroll at Concordia at Christmas time where he would be able to participate in intercollegiate athletics. Still later, however, the desire to play under Jake Christianson next fall prompted the So. St. Pauler to give up the idea of playing professional ball, and Charlie J. promises to give Bliss and Reed plenty of headaches when the two

## Johnston Named Hard-court Head

Jim Johnston, basketball stalwart on the 1947-48 Bison cage squad, will head Bison bucketmen next year it was announced by C. C. Finnegan, NDAC athletic director. Johnston has had two years of varsity competition. Bison lettermen on last year's cage squad made the decision.

## Kostka Slates Baseball Feed

Stan Kostka, baseball coach for the NDAC nine for the past season, has announced that he will fete the squad Monday at the Elks club at 6:30. Kostka pointed out that the squad will choose captains for the past year and for next season.

## Golfers, Netmen Get Medal Awards

NDAC Bison golf and tennis players will receive medals for their work on the NDAC varsity teams, according to an announcement from the athletic department.

Medals will be symbolic of the sport and will contain N. D. numerals.

Last week the linkmen polished off the Georgia Tainter golf trophy by whipping the MSTC and Concordia squads. The Bison were led by John Hagen who was low man with 81. Other Herd golfers are Pat Morrissey, Les Price, and Duane Aune.

In state competition the squad placed second with Hagen also reigning as medalist.

Led by Cliff Morkin who copped second in singles for the North Central conference, the tennis squad also has closed competition. Others who will receive tennis medals are Harry Geller and Bill Keltgen.

schools meet—not only in football, but in basketball and baseball as well.

### Rumors Around

Fargo indicate that NDAC athletic department officials are dickering for the services of a recent former NDAC performer to serve as an assistant to Bliss during the football season.

At any rate, tomorrow is another day, and NDAC followers should look forward with the hope and confidence that it will bring bright things. Though some of us may not be aware of it, NDAC has glorious athletic heritage, and it would be only proper that athletics—long one, if not the, most outstanding advertiser the school had, should resume its rightful place at the head. From the distant past through the days of Pete Gergen and Lonsbrough, through Hanson and Ernie Wheeler, through the glorious days of Swede Johnson and Colonel Larry Tanberg and finally down through the days of Cliff Rothrock, it's athletic heroes have made NDAC an institution with pride in their accomplishments. It's only fitting that athletics should be expected to resume its task.

To successor P. S. goes luck and sympathy.

## Seven Bison Track Men Awarded Letters for Service

Defending champions, the NDAC Bison trackmen, fell in the North Dakota intercollegiate track meet held on the NDAC cinder-turf here last week as the North Dakota university Sioux walked away with first place honors.

The Sioux copped the state title on 72½ points and Jamestown college pulled into third place with 37½ points. The Bison, who placed third, compiled 23 points.

As per usual, Norris Johnson, loft specialist for the Herd led the Bison attack by copping a tie for first in the pole vault. Johnson was tied with teammate Henry Johnson and another competitor for the first spot.

That was the only first the Herd acquired. However, Bison performers took four second places. Young Jim Colliton, freshman half-mile standout, strode home in the second best time in this specialty;

Dick Hansen moved the discus out the second best distance; Bob Rinde copped second in the low hurdles; and Kenny Lawson chased in second in the 440-yard dash.

Dave Turner with a third in the discus and a tie for fourth in the high jump Nick Vujovich with a third in the shot and Rufe Naczinski with a fourth in the shot were other Bison point-makers.

Herd track coach E. E. Kaiser announced the awarding of seven track letters this week. Letter winners are Lawson, Colliton, Rinde, Naczinski, N. Johnson, Hansen and Bill Toussaint, who was injured before the state meet. Kaiser outlined the qualifications for letters as winning a first or two seconds in any dual triangular meet; at least three points in Aberdeen Relays; one point in the conference meet; and 3 points in the state meet.

## Commissary Crooks Cop Title In Intramural Softball Play

The Commissary Crooks sneaked through two games last week to cop first place in the NDAC intramural softball playoffs. Led by the twirling of Friz Troubridge and Don Bredell and the big bat of Hank Mott, the hard-hitting dorm squad wiped out the Dorm Independents to claim the title.

Troubridge toed the rubber in the opener and set the Dorm squad down with two hits. Rudy Senich, Dorm Independent tosser, yielded only one hit, but that was a damaging blow by Mott which led to the Crook win, 2-1.

Ralph Eisenach faced Bredell of the Crook squad in the second tilt. And after the Dorm Independents moved out to an 8-3 lead, the Crooks hopped on Eisenach and his successor, Senich, to come from behind for a 9-8 win. Mott led the Crook willow attack.

## B Squad, Intramural Letters Available

Casey Finnegan, NDAC athletic director, has announced that sweaters are now available for distribution to "BB" squad and intramural basketball players. Finnegan said sweaters will be delivered from his office. Intramural sweaters are available to members of the champion Hook-em-Cows team.

## Phy Ed Courses Given

E. E. Kaiser, in charge of physical education at NDAC, has announced the formation of physical education classes for the summer term. Kaiser said that scheduling can be made through contact with him.

## THE BIG GAMES

IN PICTURES AND NEWS . . . READ THE FARGO FORUM FOR TOPS IN SPORT NEWS.

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## NDAC Church News

Rev. Unrah of Arthur, North Dakota will be the main speaker this Sunday at the final L.S.A. meeting of the term. The meeting will begin at 5:15 with the program and conclude with supper and recreation.

On June 11, 12, 13, the Lutheran Student Council will go on its annual retreat. The group will include past and present council members. This years retreat will be spent at Pelican Lake, Minnesota. Activities for the coming year, both in L.S.A. and Student Foundation will be planned.

### Haverluck Prexy

Laurence Haverluck, senior in Agriculture Engineering was elected president of the American Society of Agriculture Engineers at the annual election of officers. The vice president post was filled by Hugh Hansen, scribe and secretary Curtis Chambers. Roy Pile is the new treasurer of the organization. Public relation man Arne Lochen. Program Chairman Dash Camford.

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## Bison Wind-up Season With Three Defeats

Bison diamond-trodders closed out their schedule for 1948 with a loud pop as they stumbled before the Minnesota Gophers twice and a Jamestown squad once in games played last week.

In the series at Minnesota, Stan Kostka, ex-All American great at that school paraded his Herd nine to the Gopher altar and, though the Bison provided ample competition for the Gophers in the second game, the overall results were about what was expected. NDAC bowed out 17-7 in the opener and 9-6 in the second tilt.

In the opener, Johnny Rhode and George Gorman served up tasty helpings of swat-meat to the Gopher stickmen and despite some lusty Herd batwork, the Gophers had things much their own way.

Kostka countered with Frank Bishop in the second try and the results were better. The Bison hopped out to a 5-0 lead before the Big M men got to Bishop and his successor, Jim Benshoof, for the runs needed for a 9-6 win.

The Bison lost out at Jamestown on a freak play in the last inning which allowed three runs to score and sew up a 10-9 win for Jamestown.

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## Socially Yours

By POLLY EDHLUND

Hot?—Great Scott but it's hot today! Won't it be nice though—only a few days of cram-cram-cram and exam-exam and then KLOOSH—into the lake we can hop. This weekend, by the way, is going to be just bulging with house parties. Just kind of a way of getting away from it all and relaxing in a quit cottage for a few days—oh-ho.

Just lots 'n lots people dodging wood ticks in Lindenwood Park last week and this week. Hovering over a bon fire last Tuesday were the ATOs and Gamma Phis. Sizzling hot dogs the following Thursday were the Gamma Phis who were the guests of the AGRs. This all happened last week. Carrying wood on Tuesday of this week were the SAEs and Theta gals. On Wednesday the woods were full of picnickers—in one corner could be found the ATOs who were entertained by the KD gals; while the

Kappa Alpha Thetas and Alpha Gamma Deltas hooped it up with the Sigma Chis, in another section of ye old stamping grounds.

Getting together with their next door neighbors were the Alpha Gamma Rhos and Theta Chis. It was a picnic all decked out with food galore—lots of vocal talent and topped off with Rufus Johnson.

Well—little Danny Cupid is all comfy now that warm weather is here again—he got to work last week and fixed up a real nice list of pins, diamonds and "I do" days for us.

On our "She's pinned" list this week we find Genieva Grosal of Dickinson. Genieva is now the proud uossessor of Ray Schnell's AGR pin.

Remember Pukus — the little black ATO that was in that nasty old car accident last winter and had to spend long sad hours in Hawn's Hospital—while he was

there he had the cutest black and white spotted nurse—well last week is happened—Pookie hung his pin and now this pretty spotty cocker is sporting a shiny bright ATO pin.

Passing sweeties to the Gamma Phis and smoking up the Sig House last were Dottie Abrahamson and Bob Owens. All this was accompanied by a diamond to Dottie from Bob.

The bells, bells, bells—the yingie yangle yangle of the bells —it's those old wedding bells again. They're really going to chime during June. Real soon now Mary Margaret Coe of Kappa Delta and Cal Konzak of AGR are going to say "I do".

Tinkling these bells from the Theta Chi house on June 12 will be Jack Bjorneby. At this time he will change Donna Lou Gubrud to Mrs. Jack Bjorneby. On June 13 Don Wenaas and Alta Stromberg and Harry Storman—Ruthie Bjorgan will take the for better or for worse vows.

Consuming calories at the Alpha Gamma Delta House were the Alpha Gamma Deltas—match-these calories were in the form of juicy chocolates from Kathryn Skerik. An SAE pin from Al Grothe was the reason.

Guesting at the various frat and sorority houses potlucks last Monday were—with the Phi Mus—Dr. and Mrs. Opton, Marvin Hintzman, Mr. and Mrs. Gale Tolin, Edward Gutnecht and Mr. and Mrs. Don Campbell; with the Alpha Gamma Deltas were President and Mrs. Longwell, Mr. and Mrs. Sackett, Miss Smith, Miss Finlayson, Miss Dakin, Bill Taft and Al Grothe; with the Sigma Chis Barbara Nelson, Jean Hoverson, Marilyn Allen and Marg Hale.

The SAEs held their potluck and meeting at Todd's. Don't know his first name— maybe he's a new pledge.

She's the Sweetheart of Sigma Chi — It's congratulations to Faith Conmy, new Sig Sweetheart. Faith was honored at a Sweetheart Ball last Saturday. This Sig-dig was held at the Moorhead Legion Hall, and preceded by a Founder's Day banquet at the Gardner Town Hall.

Copping the honor of being chosen Model Pledge of the Phi Mu's is Rosey Pousch. Real nice.

You've all probably been doing a bit of shuffling to the tender tunes of Billy Mitchell lately. If you haven't—you really ought to check it cuz it's really good—Billy Mitchell, by the way is a nom de piano for Marv Prikse and his "Joy Boy Combo". The combo is composed of Nyle Wisted, Don Matson of Theta Chi and Vic Horne of AGR. You'll probably run into these terrific tunesters at the Troika.

Assuming scum duties at the SAE house this week were Bob Ackerman, Duane Nelson, and Dennis Nelson.

Wielding paint brushes were the Sigma Chis. Their house is now a crispy blue and white. Blue roof and the rest is white. Things are really doing to be cooking over there before long too— cuz they're going to get a new electric stove—(hoop to doo—a pun)

Well that's not 'nuff said for now cuz before you leave this cozy campus I want to thank you all for turning in your news like sech gooooooodees—thanks lots 'n have lots 'n lots of good real fine times this summer—won'cha.

Well 'nuff said.

### BIG SISTERS NEEDED

Plans are now underway for the YWCA Big Sister program next fall. All YWCA members who are interested in being big sisters are asked to contact the YWCA office.

## Jack (Rasputin) Werre Bids Adieu to Summer Vacationers

By JACK WERRE

Time: 1941. Place: Mother Russia.

Five strong men gripped hands by the fuselage of a battered Yak

### Poisonalities

#### IN THE NOOSE

By PAT O'LEARY

Since this is the last paper of the year, and also the end of the term, news has been flowing somewhat slower than that which comes out of the taps at the lakeland brew-barns. According to a survivor's report, however, a major social event of the season occurred over the two day holiday: the two day holiday. Things were really rolling around—er-along at the slop house of the lake region, where old friends get together, get wet swimming, together, or something.

Among the events down there were two gala parties thrown by somebody or other for some of the Kappas and Theta Chis. One of the highlights of the evening for the Senior Staff legacies was the arrival of an Alpha Gam (Ellen Davis by name) carrying a flashlight. What she expected to find no one will ever know, but she did find the worst — every light in the place was on.

Anti-climax: The next night when the Joy Boys gathered (same place) the power poeed and the lights were out for two hours. Miss Davis however, was back in Fargo at the time sans flashlight, but nevertheless shining at the Sig Sweetheart Ball.

\* \* \* \* \*

Apologies to the Alpha Phreeze at the north end of the Big Bloody. A usually reliable local news source got confused on the issue of Carol Leifur who is not a member of said group; it was hah-hahed in my red face in their last week's toilet-issue.

\* \* \* \* \*

This year's Bisons are being sold like beer in Fjelstad hall. Don't people like them? If this sort of thing goes on, within ten years the whole publications office will be jammed to the ceiling with old Bisons that nobody wanted . . . They're worth the extra four bits, honest.

\* \* \* \* \*

The Thetas had their usual roaring pie party this year. How that all started years ago, when they were POPs. It seems that they had wanted a bean party instead, but some of them were too sensitive about living in the POP house.

fighter in the cold gray light of the dawn. "Get one for 'Kid' Vyacheslav, huh? The Huns got him over Pyatigorsk."

At that very moment, on a sea-swept minesweeper in the Barent's Sea, Yosia Zakharova tightened her grip on a vodka keg crammed with explosives and leaped overboard, sworn to blow up the Pet-sams Naval Base.

In Leningard, Nicolai Bulgandin looked down and found the wife of the Minister of Municipal economy under his bed.

Nsevlod Podovkin and Lyubov Krupskaya, from the Steelworker's Union of Chelyabinsk were unrain-ed on the parachute lift at the Palace of Rest and Culture in Moscow.

How's that for background? That's the way I'd planned to start this department's feature for the week. I hadn't absolutely made up mind though. It was going to be either a drama or a Soviet Collective farm, called "Life can be Intolerable," or a story involving a simple, average American family, named Kinsey, of course.

But then I stopped to think a moment. This is the last issue of the year. This is a time for summing up, for tying loose ends. This is a bad a place as any, so I would like to take this opportunity to publicly note some of the people who have made this column possible:

Robert Benchley, Max Schulmen, H. Allen Smith, S. J. Perelman, James Thurber, Henry Morgan, Groucho Marx, the Laff Dictionary, and many helpful columnists in the exchange papers. I would like to say "thank you" to you "Thank You."

Our own students should get some attention too. For months now, various people have been badgering me to get their names into the paper, somehow (even if it meant casting them as a mad doctor or a Turkish spy.) I've succeeded pretty well, but I've kept all their names out. As partial atonement I am printing a list of a handful of the most persistent.

So, a Happy New Year, and don't walk into any open manholes is my summertime wish for you, Students of NDAC, I say I look out of this screen window, my eyes sparkling with good will. Just now a beautiful pair of legs came flexing by the window.

My eyes have stopped sparkling with good will and have begun sparkling with sex. In case you're wondering where the end of this piece will come, this it is.

THE END

Hey, Chapman, how do you get the screen off this window?

## How to Prepare for 'What I Did on My Summer Vacation'

By WALLACE ANDERSON

Reminiscing back to the old days when my educational injections were administered by P.S. 2, (grade school, kiddies) I recall the chief blight that used to be visited upon the ranks of the returning students as they were dragged, screaming and kicking into the wretched premises after their summer vacation was over.

This blight would appear in the form of our teacher (she always went to Mexico for her vacation and had it all over us) who would speaking loudly so as to be heard above the furious scratching of those afflicted with poison ivy, outline the topic for the first English theme of the school year. This was always inscribed in large, clear handwriting on the front board to rule out any pleas of deafness, and the inscription invariably was, "WHAT I DID ON MY SUMMER VACATION." Excepting one fortunate youngster

who had decapitated his grandmother with an axe, the entire class would find themselves without a thing to say. The high times at Camp Ochichogobee seemed to pall into nothingness; the jaunts with B. S. Troop 15 just didn't have it; something was lacking. The students usually held their integrity to the last moment and then bought mimeographed copies of summer adventures from an enterprising young operator who stole them cold from "Boys Life."

But before you ask what all this has to do with you, consider this: What if you come back to school next fall and someone asks you to write "What YOU did on YOUR summer vacation?" See what I mean?

Probably the best protection for an eventuality of this sort would be to get out and actually DO something during the summer. Unlikely as it may sound, there are (Continued on page 7)

## THE SPECTRUM

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## Letter To The Editor--

Miss Chanis Faye Ware  
417 Fifth Street South  
Moorhead, Minnesota  
Dear Miss Ware:

We received with great pleasure your letter on May 5th and checks totalling \$170.00 donated by the International Relations Club and various other organization on your campus. A package is being sent to Madame Adele Debruyne for the Sigma Phi Delta Fraternity, and when it is delivered a receipt signed by the recipient will be returned to the fraternity.

Sixteen packages will be sent to needy persons selected by our overseas representatives in cooperation with local relief authorities who are best able to judge those whose needs are greatest. Receipts indicating the names and addresses of the recipients will be sent to each group who has contributed.

Please extend our heartfelt appreciation to all those who have shown such a fine spirit of generosity. We are glad of the opportunity to help you alleviate the suffering in Europe, and we assure you of our wholehearted cooperation at all times. Please let us hear from you again.

Sincerely yours,  
Violet Oaklander  
Educational Unit

## Letter To The Editor--

Dear .....

I am writing you in regard to the State Institutional Building Fund Tax Levy coming up in the June primary election.

The substance of the bill is a four mill levy on all real estate to build up a five million dollar fund for buildings of our state penal, charitable, and educational institutions.

The fund would be allowed to build up to five million dollars and then the levy would automatically cease until such time as the fund would be depleted by a legislative appropriation for construction at one of our state institutions. At that time the levy would automatically go back into effect until the fund was again at five million dollars.

There is no specific fund provided from which the legislature can make appropriations for institutional buildings. Under the present system appropriation must come from surpluses accumulated in other departments. These surpluses cannot be depended upon for new building program and to carry out such a program a new source of revenue must be found. This new levy will provide that source.

As a student at one of our state colleges I can see a very definite need for funds to aid a building program. The bill has already passed the legislature by a huge majority. Now it us up to we voters of North Dakota to do our part in aiding the passage of this much needed bill.

Sincerely yours,

This is a suggested copy of a letter we would like each student to write his or her parents and friends. This measure has the wholehearted support of your local Inter State Student Action Committee and Student Commission.

If you don't have time to write, at least cut this letter out and mail it to your parents.

Dan Stine  
President  
ISSAC



## 'What I Did'--(Con'd)

(From page 6)

people who, when the last bell has rung, are found wandering around and about, surveying the trees in their yard. This, as far as we know, is not generally for the purpose of constructing tree houses, but is usually done with an eye to the distance between paired trees. When these certain people find two of the deciduous, leafy variety with a suitable space between, they are prone to string hammocks in the intervening gap and may be found there any time of the summer, entirely immobile and making whimpering noises from time to time to signify for food and drink and other necessities. Ah, but this is not the way to tackle the "What I did on my Summer Vacation" problem. There are other, and more exciting diversions.

### LAKING

The general procedure for getting into the spirit of Laking consists of procuring a high-powered car, stocking up with all sort of spurious beverages, and driving at hair-raising speeds between the home point and the vicinity of the lakes. Most Lakers who drive fast are still trying to break the record of Harny J. Boldfield, who, while madly racing with time and the Law to bring his date in before curfew, averaged 89.2 miles per hour up to a point on a curve just out of town where an ambulance took over and averaged 89.7 the rest of the way.

Ever since that day, Harney has faithfully wheeled himself up to the hospital every week to see if his record is standing up.

### TANNERS

For a really absorbing summer, there is nothing better than the pursuit of a fine, golden brown tan—the variety of well-did appearance that separates you from the more pallid shut-ins.

Some tanners dose themselves with different brands of sun-tan lotions, but the real, dyed-in-the-wool disciple believes in dashing out and getting fried to a good, cherry-red crisp the first day and in changing skin at intervals from that point on. Of course you are going to be mistaken for a mulatto for a while, but then you wouldn't want to miss the attentions of the . . .

### BACKSLAPPERS

. . . who are, for the most part, a tight little corps of people waiting around for the Tanners to get roasted so they can get out and get on with their dirty work. A typical meeting with a Backslapper goes something like this:

"Well, Joe—" Smack! Yeeeeeeooooow! "—so you're back from the Lakes?"

To really qualify for a Backslapper one must have a big, healthy blustering disposition and possess a hand like a pine board. Or you could just use a pine board.

### FISHERS

If you would really like to get your teeth into something substantial during the bright summer days, check the angles on angling. The matchless peace and unbroken serenity of lake fishing are attributes that place fishing in a class by itself. The thrill of hooking that big one; the fight, the battle as he plunges for deep water—there's a certain something about fishing that makes it a favorite with all.

And don't forget the bottle opener.

### WORK

work (wurk) v.i. (p.t. and p.p. worked (wurk) or, in certain meanings, wrought (rot), p.pr. working, (A.S. weorc Aryan source) 1, to put forth physical or mental effort; labor; toil. 2, to be occupied in business; be employed as, he works in the steel mill; 3, to act, operate or run—

As you can plainly see, there are all sorts of things you can take after during the summer time that will well prepare you for the "What I did During my Summer Vacation" ordeal. And, by the way, those two trees there in the back yard—about ten-feet apart—hummm.

# Persistence of Vision Basis for Television

Television, like motion pictures, depends for its animated reproduction upon a common and well-recognized optical characteristic, persistence of vision.

This is the condition which causes the human eye to retain its impressions of any scene for a trifle of a second after the actual scene has been removed. Its simplest demonstration is in the continuous circle of light seen when a glowing cigarette is whirled rapidly in the darkness.

Persistence of vision is employed in the movies by advancing film at a speed which causes either 16 or 24 individual pictures, or frames, to fall upon the screen every second. Thus the lingering impression of each still picture bridges the gap between pictures and the presentation blends into a continuous animated scene.

Television employs the same technique—rapid presentation of a sequence of individual pictures seen as one continuous animated picture. This illusion is made possible by normal persistence of vision, and is aided by a so-called "storage effect", in the picture tube of the television camera.

But here the similarity ends. Movies are made well in advance of showing and films are delivered to the projection room completed in every detail, awaiting only application of light to transmit their scenes to a nearby screen.

Television, however, makes its pictures, transmits them over long distance and shows them on thousands of widely separated screens—all within fraction of a second.

Moverover, while movies show 16 or 24 separate pictures, or frames, per second television operates on a 30-frame-per-second basis and each of these frames, because it must be transmitted by radio carrier instead of by light-ray projection, must be broken down into a series of fine horizontal lines.

Lines are traced, or scanned, by electronic action and each represents the exact degree of light or shadow occurring at every point along its path across the face of the picture. In the camera these lines translate their light-and-shadow values into terms of electrical energy suitable for transmission by radio carrier. In the receiver this process is reversed and electrical energy received by radio carrier is made to retrace the particular kind of line it describes on a viewing screen.

Because picture quality improves as the number of lines employed to record its detail is increased, present day television operates on a basis of 525 lines to each frame. This means that to transmit a single second of television 15,750 lines must be scanned at the sending location and a like number of lines must be recorded simultaneously to reconstruct the picture on each receiver.

Actual transmission by radio carrier of the electrical energy descriptive of any scene does not differ radically from any other type of ultra-shortwave broadcasting. It is this translation of light-and-shadow detail into terms of electrical energy transmittable by radio carrier—scanning—which poses television's greatest problem.

Early television employed mechanical scanning and although pictures of up to 240 lines were transmitted engineers were quick to realize that mechanical scanning was bounded by physical limitations which blocked the way to any really successful television service.

These limitations were retarding television development when, in 1923, Dr. Vladimir K. Zworykin, Russian-born scientist then employed as a physicist in the Westinghouse Research Laboratories at East Pittsburgh, applied for a patent on an electronics-beam television pickup which broke the bottleneck of mechanical scanning by making possible new phenomenally high scanning speed. This system led, after extensive development, to the Iconoscope—seeing eye of the modern television camera.

Six year later, in 1929, while still in Westinghouse employ, Dr. Zworykin demonstrated a second basic television development. This was the Kinescope which eliminated mechanical scanning from the receiving operation as well and established television as an all-electronics science.

These developments, the Iconoscope and the Kinescope, are responsible for all modern television—invented, developed and demonstrated at Westinghouse during the 20's. Both are standard present-day television equipments.

The Iconoscope is special cathode-ray tube, so named from the Greek . . . "eikon" an image, and "skopein" to view . . . which converts the scene delivered to it through a camera lens into electrical energy to be transmitted by radio carrier waves.

The Kinescope is a similar, but not identical, cathode-ray tube also named from the Greek . . . "kinema" motion, and "skopein" to view. Located in the receiver, it reverses the sending process by reconstructing the scene line-for-line from electrical energy delivered to its antenna by radio carrier.

Within the Iconoscope the image to be televised is converted into electrical energy by action of a pin-point stream of electrons. These minute negatively-charged particles are shot from a tiny nozzle and directed against a plate, known as the mosaic, on which the image has been focused by the camera lens. Both nozzle and mosaic are a part of the Iconoscope and within its vacuum.

This stream of electrons is made to move across the mosaic from left to right, forming one scanned line with each passage, and each successive line is started a trifle lower on the left edge of the plate. The action is much like that of a stream of water from a hose directed from left to right against the horizontal boards forming the side of a shed, and lowered one board at a time.

Face of the mosaic is made up of thousands of tiny photo-electric cells—each perfectly insulated from its neighbors and each forming one plate of a multiple condenser using a common second plate.

As it moves across the mosaic, the electronics stream causes each successive cell to discharge stored electrical energy—through its common second plate—in varying amounts according to the exact light-and-shadow detail which occurs in its particular part of the lens-image. It is these charges—amplified many times—which are modulated on the radio carrier wave for transmission.

The receiver operates in much the same manner. Here the all-essential scanning is done by electronics action within the Kinescope, a variation of the cathode-ray beam. This tube, like the Iconoscope, contains an electron nozzle, but has no plate.

The Kinescope's electronics jet is directed against the opposite end of the tube which, enlarged and flattened, resembles the covered mouth of a huge glass funnel.

This surface has an inner coating of phosphors which fluoresces when activated by the stream of electrons directed against it from within the tube, causing it to record the exact degree of light or shadow occurring along each scanned line.

This light-and-shadow detail shows through the fluorescent coating, reconstructing the original scene on the outer face of the funnel-like head of the Kinescope, which becomes the viewing unit in direct contact receivers. In projection type models lenses and mirrors are employed to enlarge this image for showing on a screen or ground glass.

Color television follows exactly the same electronics principles employed in recording black and white pictures. Colors are added by a strictly mechanical operation which interposes a series of red, blue and yellow filters between the camera lens and the mosaic at the point of pickup; and between the Kinescope's black-and-white image and the ultimate viewing at the receiver.

Six filters arranged in two sequences of the three colors are mounted on each of two discs—one at the point of pickup and the other at the receiver. Discs are rotated at 1200 revolutions per minute, to bring 120 filter-fields before the picture every second, and carefully synchronized as to speed and order of appearance.

Since each filter excludes all but its own color this means that the picture is presented rapidly to show first only red portions, then only blue portions, and finally yellow portions. However, because of the high and perfectly matched disc-speeds, plus persistence of vision, these separate and partial pictures are seen as one complete picture with each of the three basic colors and their respective blends in proper register and intensity.

Today's color television, much like its black-and-white counterpart of nearly two decades ago, is a combination of electronics and mechanical operations. However,

just as black and white presentations moved on to all-electronics operation so indications are that color television of the future lies in the field of all-electronics operation.

Television, like all shortwave radio transmission at very high frequencies, is limited generally to line-of-sight reception since these ultra-shortwaves are not reflected by the Heaviside layer and other ionized strata of the earth's rarefied outer atmosphere with sufficient consistency to insure serviceable long-range reception.

This fact poses a question many stations, each serving its own line-of-sight area; and this fact, in turn, raises the question of network programs originated at logical talent centers to supply these remote stations.

Such television network service falls generally into three separate categories: radio "link" tie-ups, in which stations are connected by an ultra-shortwave radio service, not audible to domestic sets, carried cross-country by line-of-sight relay installations, either attended or unattended; co-axial cable or wave guides, which require physical connections between stations; and finally, especially balanced telephone long-lines, similar to those now used for network sound service.

All have been tried and all still are in process of development.

Westinghouse pioneered "link" tie-ups as early as 1923 when, on March 4, station KDPM was installed at the Company's Cleveland (O.) Works to receive and rebroadcast regular KDKA programs by shortwave. Out of this early experience came establishment of a similar station, KFKX at Hastings, Neb.—near the geographical center of the nation—the following Nov. 22, and it was this station which provided much of broadcasting's early service to the United States, Canada, South America and Europe.

Co-axial cable service, too, has a history of use for more than a full decade; while wave guides are relatively late comers to the television picture.

Newest of the three is transmission by wire, announced during 1944 and still in process of proving it worth.

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Percy McLean  
Lyle Nelson  
Ralph Noltimier  
Harold Odegaard  
Howard Olson  
Eugene Paulson  
Carl Persson  
Chester Reiten

Wayne Rowe  
Robert Rustad  
Wesley Samson  
Darrell Sand  
Delbert Sand  
Donald Sholts  
Einar Siggeirsson  
Robert Simons  
Ames Skolness  
Raymond Skorheim  
Harry Somsen  
Howard Spaulding  
Wallace Sweeney

Russell Thompson  
Armond Toussaint  
Emmanuel Walth  
Leon Warner  
William Welanders  
Clifford Wiese  
Miles White

## APPLIED ARTS AND SCIENCES

Jane Acker  
Byron Anderson  
Roger Anderson  
Alfred Aune  
Marian Barnes  
Elsie Best  
Jean Bjorklund  
Iona Bolton  
Bruce Borman  
Jacqueline Brady  
Lucille Butler  
Clifford Cossette  
John Dady  
Geraldine Deutsch  
Rudolph Froeschle  
Norman Gary  
Judith Gessner  
Mary Haggart  
Harold Helferich  
Hazel Hiemstra  
Lois Hooper  
Chester Jensen  
Paul Jones  
Robert Koshnick  
Donald Loder  
Thomas Lofthouse  
Dolores Martinson  
Howard Mohler  
Frank McCamy  
Merle Nott  
Donald Novaria  
Charles Parker  
Paul Paulsen  
Dolores Patterson  
Gordon Potter  
Leslie Price  
Albert Pull  
Clifford Rothrock  
Lawrence Rotvold  
Lester Rygg  
Mary Scherling  
Robert Schmitt  
Mary Shippey  
Kenneth Sorvik  
James South  
Merrill Stene  
Charles Swanson  
Loretta Swisher  
Marian Teichmann  
John Tharaldson  
Chanis Ware  
James Wilkinson  
John Williams  
Leslie Wilson

## EDUCATION

Rita Bastyr  
Paul Brostrom  
Thomas Corrigan  
Gloria Crews

Owen Johnson  
Wilbur Johnson  
Wallace Kapaun  
Robert Molland  
Charlotte McDonald  
James Noonan  
Mary Ringwall  
Nick Soulis  
Patrick Twoomey  
John Weber  
LaVerne Wiese  
Shirley Wilson  
Josephine Wyckoff  
**CHEMICAL TECHNOLOGY**  
Lorraine Brady  
John Christensen  
Floyd Garven  
Ray Gordon  
Mary Hablas  
Russell Henrickson  
George Huffman  
Robert Jepson  
Frederick Kingdon  
Norman Severson  
Charles Smith  
Ingmar Sollin  
Marshall Willson

## ENGINEERING

Lloyd Holm  
Roger Runestrand  
**ARCHITECTURAL  
ENGINEERING**

Neil Bergquist  
Wayne Candor  
Leonard Geiszler  
Curtis Lindberg  
Jim McNutt  
**CIVIL ENGINEERING**

Charles Bjornstad  
Carl Kkern  
Garry Fisk  
Wilbur Haugen  
Donald Laraway  
Harvey Krogh  
Harold Levenson  
Keith McLean  
Earl Nelson  
Francis Richard  
Lawrence Seeba

## ELECTRICAL ENGINEERING

William Bogenrief  
Myron Broschat  
William Chambers  
Frederick Fisher  
Clarence Gerber  
Clifford Montplaisir  
Donald Nelson  
Irl Pickett  
Jerome Shrawder  
Gus Theodius  
Bert Thompson  
Kenneth Tompt

## MECHANICAL ENGINEERING

Maurice Bergh  
John Botts  
Kermit Davison  
Jesse Hall

Paul Humphreys  
Everett Kangas  
John LeFevre  
Eugene Linberg  
Lane Milde  
Patrick Morrissey  
Donald Morrow  
Donald Pile  
Charles Nymon  
Michael Pristash  
Haskell Reichert  
Duane Rice  
Harold Rintoul  
Thomas Sakshaug  
Donald Schaetzle  
Harold Sletten  
Charles Winn

## HOME ECONOMICS

Gwendolyn Akason  
Margaret Anderson  
LaDonna Archer  
Delores Barker  
Jane Bohlig  
Marian Brunzman  
Lola Card  
Yvonne Christenson  
Marilyn Collette  
Fredrika Copper  
Helen Crews  
Anna Delvo  
Helen Enlow  
Donna Fisk  
Betty Foster  
Barbara Hammer  
Rachel Hansen  
Arlys Harmon  
Mary Harrington  
Joyce Hudson  
Eunice Huso  
Ardis Ingwalson  
Ellen Johnson  
Rhoda Johnson  
Lois Krebsbach  
DeLoris Lamb  
Bonnie Martin  
Marjorie McDonagh  
Lois Nelson  
Phyllis Nickeson  
Cleone Nybeck  
Vivian Olson  
Muriel Palmer  
Margaret Pavlik  
Gladys Sather  
Naomi Schuricht  
Gloria Seidel  
Mildred Sherman  
Margie Slingsby  
Lydia Smith  
Alice Springer  
Luella Strother  
Bernice Swenson  
Marlys Timm  
Josephine Torson  
Lois Vangrud  
Solveig Vanvig  
Muriel Vosper  
Joyce Watson

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Alfred Call  
Eben Davis  
Donald Domek  
Einar Eiriksson  
Mary Gall  
Robert Getz  
Vernon Gullickson  
Donald Hoff  
Earle Johnson  
Walter Johnson  
Beverly Kristjanson  
Robert Kuzel  
John Larsen  
Robert Lee  
Warren Levasseur  
Elizabeth Lewis  
Lucille Manning  
Nels Nelson  
Ann Olson  
Claris Olson  
Grace Olson  
Mary Phillips  
Robert Rose  
Samuel Smith  
Hugh Stotts  
Roman Tembreull  
Theodore Teigen  
Joyce Trett  
Eugene Wiest  
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## BACHELOR OF ARCHITECTURE DEGREE

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Harold Crosby  
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## MASTER OF SCIENCE DEGREE

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Wayne Fallgatter  
William Griebstein

## According To Esquire -

### Belts vs Braces

That old chestnut about the fireman and his red suspenders no longer holds quite so true. Several years ago, when men started climbing into uniforms, the brace lost quite a bit of ground to the government sponsored belt. After a hitch in the service (that's a pun, son!) men had become so accustomed to the belt that they continued wearing them into civilian life—but civilian belts are as different from army belts as tweed is from khaki. The tooled, western style belt is one that's becoming a big favorite on the country's campuses. It's a hefty belt, finished with a bold looking filigreed silver buckle. Another favorite is a cordovan belt; it's a rich, reddish brown tone and the glossy texture of the cordovan takes on a high glow when polished—the higher the better! But if you're of the school that thinks trousers don't hang properly unless supported by braces—and this school is large—there are several types of them around to choose from: the all-elastic type, the non-elastic ribbon brace with an elastic inset in the back, and the mesh or knitted type. The loose weave in these allows a certain amount of give.



### Consider both sides

Anything that gives you twice your money's worth should be of interest to college men . . . any man for that matter. The reversible coats (remember how popular they used to be?) are coming back again—but strong! One side tweed, one side processed cotton that laughs at the rain—good-looking in the casual campus manner—the reversible topcoat can be worn with equal nonchalance on the nicest or the nastiest day. When it starts to rain, just turn the other lining. The big favorite is the raglan sleeve model with slash pockets which are available no



matter which side is being worn as the outside. The tweed fabrics are available in plain diagonal weaves or in the more popular herringbone weave—mostly in brown but also in grey and bluish grey.

### Pinning you down

Jewelry that has a claim to utility has always been popular with well-groomed men. Even men who think it's masculine to declaim the use of jewelry will jump at the chance to wear some if they're given an excuse for doing so—witness the widespread use of the Air Corps-promoted identification bracelet. Tie pins and clasps, for instance—if you've ever had a necktie flapping in your face when you're driving a car or running to make a class, you know how welcome the tie clasp can be. And it has an added use: some men knot their ties in such a way that the ties stick straight out from the collar; a tie clasp pulls them down flat. The good news is that the new tie clasps are bold and masculine looking—no longer delicate little chains or thin strips of metal. One in particular is a simple broad band, sometimes decorated with the wearer's initials. Others are shaped like arrows, nails and swords. They're of the trompe l'oeil school—they seem to pierce the tie but don't. The collar pin is another piece of utilitarian jewelry—it keeps the collar and tie looking neat from morning till night. The simple, gold, "safety pin" style is the most popular—it's even being worn with button-down collars.



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