

THE WEEKLY SPECTRUM

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VOL. 15 Number 34.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY June 1st, 1909.

PRICE 5 CENTS.

Inter-Collegiate Meet Saturday

Six Institutions Will Be Represented—Contest on Dacotah Field.

FARGO MERCHANTS
AWARD THE MEDALS

Some of A. C.'s Best Men Have Left and Chances for Winning Lessen.

Upon Saturday, June 5th, 1909, will occur the North Dakota Inter-Collegiate Track and Field Meet upon the Dacotah Field at the Agricultural College. Six institutions have signified their intention of entering the contest and the most successful Collegiate Meet ever held in the State of North Dakota is expected.

The institutions that have signified their intention of entering the contest are Fargo College, Mayville Normal, Valley City Normal, State Science School, Concordia College, and the Agricultural College. It is expected that in all that there will be over one hundred entries in the meet.

Lose Men.

Little can be said of the comparative strength of the above named institutions. As for the A. C., the loss of three men who were scheduled as winners has considerably lessened our chances for first place. Kent Darrow, who was expected to be a point winner in the dashes and the pole vault, finds that his summer trip in Europe will take him away before the fifth; Lembecke, one of our fastest men in the dashes and who was picked for the relay team, has already left the College to accept vacation employment with the Great Northern Surveyors; Scott Drummond likewise has been taken away to make up a reclamation survey party, and he was without a doubt our best miler.

We have a few good men left, however, and they have been working hard and we still have hopes, providing summer surveys don't claim any more of our leaders.

Medals Contributed.

As an incentive to the furtherance of good clean sport thirteen of the representative business firms of the city of Fargo have agreed to furnish a gold, a silver and a bronze medal for the winners of first, second, and third places in each event. The following firms are donors of the medals:

- J. F. Holmes and Co.—100 yard dash.
- N. C. Anderson—220 yard dash
- C. E. Green—440 yard run.
- Western Hardware Co.—Half Mile run.
- DeLendricie Co.—Mile Run.
- Fout and Porterfield—120 Yard High Hurdles.
- Hatcher Bros—220 Low Hurdles
- Johnson Cycle House—Running High Jump.
- Waldorf Pharmacy — Broad Jump.
- A. L. Moody—Pole Vault.
- Waldorf Hotel—Putting 16 lbs. Shot.

J. E. Dixon Co.—Throwing 16 lb. Hammer.

O. S. Hadeland—Discuss Throw.

The Relay.

The final event of the day will be a relay race between teams of four men from each institution. This event is always a pretty one and it is planned to make it the crowning feature of the meet. A silk pennant is awarded the school whose team wins the relay. In addition to this a gold medal will be given each member of the winning team. Those medals are donated by George Holister, Harry Carpenter, A. W. Fowler, and Dr. Hallenburg. A silk pennant goes to the school winning the greatest number of points. First place in each event counts five points; second place, three points; third place, two points.

The officials of the meet have been selected and are as follows:—Supt. Hoover, Referee; Mr. Kalmbach, Starter; Seth Richardson, Professor Watkins and A. W. Fowler, Track Judges; Messers Barbour, Zeifle and Dr. Hallenburg, Field Judges; Professor Arvold, Announcer and Professor Slocum, Chief Clerk; Timekeepers, Director Harrison of the Y. M. C. A., and Dr. Dillon.

COMMENCEMENT CONCERT OPENS FESTIVITIES

Dr. Putnam Has Excellent Program Arranged for Annual Musical Event

Dr. Putnam has the arrangements for the commencement concert nearly completed. The concert will be held in the college chapel next Friday evening and while the exact program is not yet made out, the following numbers are assured:—The College Choir and Orchestra will each give two selections, Mr. George Edwards will render a piano solo, and vocal solos will be rendered by Miss Grasse, and Professor Beckwith. The closing number will be a violin solo by Mr. Hendrickson and a cornet solo by Dr. Putnam. In every respect the concert promises to be one of the best ever held at the College.

It will be noticed that the musical part of the several Commencement programs promises to excel all such performances in the past. The orchestra will in all cases consist of eight and ten pieces instead of five as on all former occasions and all the solo numbers will be by musicians of known excellence. Dr. Putnam has spent no little time and effort in arranging the programs and it is to him the credit should go for the promise for musical excellence.

MAYVILLE NORMAL WILL NOT ENTER

Special to Spectrum:—Manager Dynes received notice to day that Mayville Normal would not be able to enter the intercollegiate track meet because of local developments preventing. The baseball game scheduled for Saturday morning is off also. This leaves but five schools in the intercollegiate track meet.

The Seniors are busy converting the Armory into a metropolitan theater.

Elaborate Plans For Commencement

Class Program and Play are Scheduled for Senior Day.

PROGRAM IN AFTERNOON

Exercises Will Be Held in the College Armory—Swingout Follows.

Monday next is the Senior class day and the class has been making some elaborate preparations for functions which are to occur on that day. The present graduating class is the largest that has ever graduated from the institution and they have also planned the largest class day program which has ever been put on at the College. The regular class day program will be given in the Armory at three o'clock in the afternoon and is expected to be of high order. Then in the evening the class play, which is an original farce picturing things as they might have been here at the College had not certain things happened written by Mr. Parker of the class, will be given in the Armory after which the "Senior Swingout" will take place. After the swingout which will be a dance the Seniors will spend their last midnight hour on the College campus.

Class Program.

The class program which is held in the afternoon at three o'clock in the Armory is of a varied nature. The program as arranged is as follows:

- Music Selected
- President's Address — William Lanxon.
- Class History—Albert Thomas.
- "Robert Burns, the Man and Poet"—Leo P. Nemzek.
- "The Power of Public Conscience"—Chas. A. Mehels.
- "The Relation of the State Educational Institutions"—Wm. O. Whitecomb.

Presentation of the Hatchet — John Magill.

Acceptance of the Hatchet — S. V. Anderson.

Presentation of the Scepter — Hugh J. Hughes.

Acceptance of the Scepter — Edwal J. Moore.

Music—Selected.

"The Co-ed Rules".

At eight o'clock in the evening at the Gymnasium will be given "The Co-ed Rules." The scene of this is laid at the College and promises to be of special interest as it is especially adapted to the College at the present time. The play is written by Mr. Parker who has succeeded very well in portraying the life of students as seen at an institution of this character. A stage has been erected in the gymnasium and special scenery has been procured for the occasion. The cast of characters are as follows:

- Herbert Brown — Arthur Murphy.
- Thomas Sharp—Levi Thomas.
- Harry Fleming—Burke Critchfield.
- Charles Holcomb — Clarence Plath.
- Myrtle West—Matilda Thompson.

Miss Masters—Margaret Magill.

Dr. Riggs—David Moore.

Hamlet iKtes — Melvin Baernstein.

ACT I. Brown's rooms on Tenth avenue.

ACT II. Campus near the tennis court—A. C.

ACT III. Same as Act I.

PROF. WALDRON HEADS POLYTECHNIC SOCIETY.

Work of the Year has been a Success Beyond Dreams of its Promoters.

At last Wednesday's meeting of the Polytechnic Society considerable business was transacted, most important of which was the election of officers for the coming year. Professor C. B. Waldron was chosen to head the organization; Professor Willard was elected 1st Vice President; and Professor Bergman 2nd Vice President. The secretary, Prof. R. E. Remington was re-elected for another year. Mr. Bailey was elected Sargeant at Arms.

The constitution of the Society was amended to the effect that each member will be required to appear upon the program only once in two years in place of once a year as formerly. This change was necessitated because of the large membership of the society.

The initial year of the Society has been successful beyond the highest expectations of its promoters. All of the papers have been of a very high order and the interest manifested in them has been as uniformly high. Plans for next year have not yet been completed but there is little doubt that another successful year will be experienced.

Kent Darrow and Dr. Batt are off for their European tour and soon will be gently rocked in the cradle of the Atlantic.

Baccalaureate Address College Chapel Sun.

Minneapolis Minister Will Address The Seniors—Sacred Music by Choir.

COMMENCEMENT 10:00 A. M. TUESDAY.

"Spirit of the Age" Subject of Commencement Address.

At 3:00 P. M. Sunday afternoon, June 6th, in the College chapel will occur the annual Baccalaureate service. The address this year will be delivered by Dr. Marion D. Shutter of the Church of the Redeemer, Minneapolis, Minnesota. Dr. Shutter is one of the most popular and successful in the ministry of the Twin Cities and there is little doubt that his address will be such on this occasion that few can afford to not hear it. Besides the address sacred music will feature the program led by the College choir.

Hon. S. H. Bashor, of Waterloo, Iowa, will be the speaker at the commencement exercises which will be held in the armory at 10 o'clock, Tuesday morning, June 8. The subject of his address will be "The Spirit of the Age". Mr. Bashor is a speaker of no little prominence and the College is indeed fortunate to secure his services.

Diplomas will be presented by Hon. L. A. Ueland of Edgeley, N. D., who was recently made a member of the College Board of Trustees. A feature of the program will be the music which will be furnished by Dr. Putnam. The selections rendered will be the Overture, "Raymond", by Ambrose Thomas; the Novelette, "Elysian Dreams by Reriland, and Brahm's Hungarian Dance No. 5.

Critchfield went home again of over Sunday as usual.

COMMENCEMENT EVENTS

Friday, June 4th.

Commencement Concert College Chapel

Saturday, June 5th.

Annual Inter-Collegiate Field Meet Dacotah Field

Inter-Society Banquet—8:00 P. M. Gardner Hotel

Sunday, June 6th.

Baccalaureate Address — 3:00 P. M. College Chapel

Monday, June 7th.

Student Election—12:00 College Chapel

Senior Class Program—3:00 P. M. College Armory

Senior Class Play — 8:00 P. M. College Armory

Senior Swing Out—10:00 P. M. College Armory

Burning of the Mid Night Oil—12:00 P. M., College Campus

June 8th, 1909.

Commencement Address —10:00 A. M. . . . College Armory

Seniors' Farewell Luncheon—12:00 A. M.—Gardner Hotel

Alumni Banquet—6:30 P. M. Pirie's Hall

September 20th.

College Opens N. D. A. C.

Engineering School Starts On June 7th

Attendance is Again Expected to Pass the Two Hundred Mark.

MOST PRACTICAL COURSE

Prof. Rose in Charge and Messrs. Gunness, Dolve and Erickson Will Assist.

The regular school year will hardly be over when Professor Rose will again be busy with his class in engineering. The summer school of traction engineering will open here on June 7th, and it is expected that over two hundred of the young men of the North west will avail themselves of the practical efficient course in engine and thresher operation. A feature of the past summer schools of this kind have been their very practical nature and this one promises to be no exception as down town thresher companies furnish a large number of engines, threshers and gasoline engines of different makes. Although there will be a large number of students the large quantity of apparatus will insure that everyone will secure plenty of practical work.

The work will be given by lectures and in the field. Prof. Rose is at the head of the school and will do most of the lecture work, assisted by Mr. Gunness. The instruction in the field work will be given by Messrs. Gunness, and M. B. Erickson, and also the boiler inspector of the State of Minnesota, who will assist in the instruction. Mr. R. M. Dolve will have charge of the instruction in the operation of separators.

The tuition charge for the entire course is fifteen dollars. A diploma will be given at the end of the course and those wishing it have the opportunity of securing an engineer's license for the state of Minnesota.

MANY CONIFERS FOR GOVERNMENT FORESTS

The Department of Horticulture has just completed the planting of seven thousand coniferous trees in the plat on the College Grounds which is conducted by the department for the Government. These trees include three kinds of pines and one of spruce; another kind of spruce will be planted later on.

The work at replanting the orchard was also started last week, but the rain prevented them from completing their work.

AGRI. DEPARTMENT ISSUES NEW BULLETIN.

Dean Shepperd and Professor Richards have just completed a new bulletin on "Fattening Hogs" which will soon be ready for distribution. The bulletin gives results of trials of feeding barley compared with corn, low grade wheat compared with corn, and also the effect of cross breeding on grains and on carcasses. The bulletin will be illustrated with cuts of barley, wheat, and corn, fed hogs, and also of the carcasses, thus bringing vividly to the reader the difference in results of feeding the various grains.

The enrollment in the Department of Education during the past year has been seventy-three. This includes the various students of the college courses who have taken work in Education in addition to those taking the regular teachers' course.

CREDIT FOR PRACTICAL PEDAGOGY

Maximum of Three Credits Will be Given in Future to Senior Teachers.

At a recent faculty meeting it was decided to meet the demands of several students in Education who wish some practice work in that line. It was voted to allow a student of the Senior class a maximum of three credits for teaching in the Agricultural High School which is to be inaugurated here next year. This credit is allowed only to members of the senior class and the work is under the immediate charge of Professor Weeks, head of the Department of Education, and Registrar Parrott who will be principal of the High School. The giving of this credit will make teaching the equivalent of a subject carried through the term of the year as the case may be. Unlike the work as student instructor, this teaching for credits carries with it no pay and is under the supervision of the Department of Education and the Agricultural High School.

GEOLOGISTS TAKE TRIP TO VALLEY CITY

Left Yesterday Morning and Back Last Night.

The geological excursion which has been talked of during the term has at last become a reality. For some time a committee from the geological class has been at work and yesterday was finally fixed upon as being the day which would least interfere with other work. The place decided upon was Valley City, for while the distance is considerable, the geological formations at that point make it one of the most interesting fields for investigation in the state.

The final details of the trip were arranged on Friday and a large party from the geological class and physical geography class left on the 7:55 train yesterday morning and were gone all day, returning late in the evening. A most profitable and enjoyable trip is reported.

INTER-SOCIETY BANQUET SATURDAY EVENING.

Elaborate Affair Planned—Gardner Hotel 8:00 P. M. is the Time.

The 13th Annual Inter-Society Banquet will be held upon Saturday evening of this week at 8:00 P. M., in the dining rooms of the Gardner Hotel. The time is later than usual this year because of the Inter-Collegiate Track Meet which will undoubtedly last until 6:00 o'clock. The banquet will be ultra elaborate this year and though we can not yet announce the menu the Gardner has promised an elaborate Feast. The price of the plates is \$1.00 and the tickets must be bought before Friday noon, June 4th.

Toasts.

The toasters and toasts are as follows:—Wm. Lanxon, Athenian, toastmaster; S. V. Anderson, Philomathian, "Students and Other Things"; LeRoy Gifford, Athenian, "Next Year"; Mary Mae Miller, Philomathian, "-----"; Margaret Magill, Athenian, "Farewell"; R. M. Dolve, '05, "My Views of Matrimony"; Prof. Arvold "Who Runs the College?"

Annual Inspection Features This Week

All Students Excused to Witness Parade and Inspection of Cadet Corps.

CAPT. P. D. LOCKRIDGE, INSPECTOR.

Cadets Showed Improvements Over Previous Year—Drill Two Days This Week.

The annual military inspection was held at the College last Wednesday forenoon and all classes were dismissed after ten o'clock to enable all of the students and faculty to be present at the ceremony. Members of the band and company reported at nine and shortly before ten were marched to the parade ground west of the library.

The inspection, which was conducted by Captain P. D. Lockridge of the General Staff, continued until noon. After the usual ceremonies of inspection and parade the accountments were inspected in detail while a number of selections were played by the band.

This was followed by skirmish drill and guard mount by the company. The maneuvers were closed at twelve with the playing of the Star Spangled Banner by the band. The cadets were then marched to the armory where Captain Lockridge spoke a few words on the value of military training and congratulated the students on their work.

As a whole the inspection was the most thorough ever held at the College, and while the maneuvers showed much room for improvement yet it was an improvement over last year and marks a step in the right direction.

During the rest of the term there will be only two days drill a week. These will be held on Wednesday and Friday.

BIG DRAINAGE SYSTEM ON THE GRANDIN FARM

Prof. Dolve Does the Engineering Part of Work of First Big N. D. Tile Drainage Project.

Professor Dolve spent several days last week at the Grandin farm in Traill County surveying and running the lines for a tile drainage system which is being installed on part of the farm. The plans are to tile drain a 320 acre tract. To do this they will lay eight miles of tiling which will require twenty carloads of the tile. If this experiment comes up to the expectations, the management of the farm intends to drain a larger portion of it next year. This installation of tile drainage in the Red River Valley is an important move in the right direction because the need of a drainage system at the present time. If a few progressive farmers in every community would try tile draining and make it a success, it would not be long before others would follow their example.

Professor Dolve stated that at a cost from five to ten dollars an acre a tile system could be put in on the average Red River Valley farm which would improve to an enormous degree the present conditions. A system like this could also be arranged so that it could be further extended at any time should the owner see fit.

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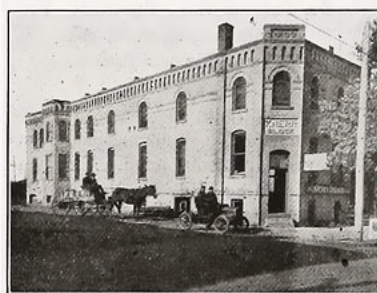
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MINNESOTA WANTS

ANOTHER SENIOR

Dean Shepperd lately received a telegram from a town in Minnesota asking him to recommend one of our graduates to fill the position

of superintendent in the agricultural high school in that place. A very liberal salary was offered, but as all of our senior Aggies have already accepted positions, the Dean was unable to comply.

BRIQUETTING PROCESS PROVES FEASIBLE

Very Good Briquettes Can be Made With "Abbott" Machine.

National Briquetting Co., of Minneapolis is Owner of the Process.

The briquetting tests that have been carried on during the year are now completed and have reached a stage where the actual machine alone remains to be tested. In the tests here a standard sized slightly tapering tube was placed in the testing machine and the powdered lignite mixed with two per cent of lime and one per cent of starch was forced through the tube at a pressure of three or four thousand pounds. The briquettes turned out were surprisingly hard and strong and would not break when dropped from considerable height. When put into water they absorbed but very little moisture owing to the fact that the particles of coal are pressed together so tightly and also because the passing through the tube gives the surface of the briquettes a shining gloss. The tests have shown beyond a doubt that the process is possible and there is no reason why it should not be a success commercially. The machine with which the briquettes will be manufactured on a commercial scale has eighteen of these tubes and the plungers for forcing the coal through are driven by a fifty horse power engine. This will give a capacity of two hundred tons of briquettes a day with only a small crew of men.

The heating value of the briquettes was found to be entirely satisfactory in tests carried out later. The briquettes were found to have none of the undesirable characteristics of the original lignite. The National Briquetting Co., of Minneapolis is the owner of the process and is getting ready to put in lignite briquetting plants in various parts of the state.

REPORT OUT.

The first annual report of the Williston Sub-Station for the year of 1908 which is compiled by Mr. E. G. Scholander, '06, who is superintendent of the station is just off the press.

INTERESTING FEATURE FOR INDUSTRIAL SCHOOL.

U. S. D. Man Will Deliver Seven Lectures During Summer Session.

Among the most interesting features of the Industrial Summer School to be held at the State Agricultural College, Aug. 2 to 26, will be a series of seven lectures by Mr. F. W. Howe of the Department of Agriculture, Washington, D. C. These lectures will be given during the first week, Aug. 2 to 7th inclusive. The outlines are as follows:

Lecture I. Agriculture Defined—As a Science an Art, and a Mode of Life; Agricultural Education—Elementary, Secondary, Collegiate. Possibilities and limitations of the subject; relations of school agriculture to nature study, school gardening, botany, chemistry, physics, mathematics, manual training, language, etc.

Lecture II. The Text Book of Agriculture and its Supplementary Aids in Teaching the Subject.—Desiderata in a good text book; laboratory apparatus and exercises, school and home gardens, field trips, demonstrations, excursions, helpful literature.

Lecture III. School Agriculture in its Relations to the Community.—What the school should do for the people and what the people should do for the school.

Lecture IV. Boys and Girls' Clubs.—A brief history of the movement; crop-growing contests and their future possibilities, sewing and cooking contests, exhibitions and prizes. Suggestions for the organization of such clubs. (Illustrated with stereopticon.)

Lecture V.—Agriculture as Taught in some Public High Schools.—Stereopticon illustrations of laboratory and field exercises, school gardens, and school ground improvement.

Lecture VI. The Training of Teachers for Agricultural Instruction—A brief history of the plans already developed; some suggestions for further development.

Lecture VIII. How to interest Boys and Girls in Rural Life.—Popular—for parents, teachers and school officers.

FIFTEEN THOUSAND STRAWBERRY PLANTS

Prof. Randlett is Busy Sending Out Plans to State School Children.

Professor Randlett has been busy the past week sending out strawberry plants to the school children in various parts of the state for the rural school agricultural contest. The plants are sent to those children who have signified their desire to enter these contests either to their county superintendents or have sent in their order direct to Prof. Randlett. The number of plants the children order various, some ordering as high as fifty. In all about fifteen thousand plants will be sent out.

The officials of Richland county have evidenced a marked interest in this work. They have ordered at the expense of the county eighteen plants for each of nearly five hundred children in the rural schools of the county. Evidences like this—that the people are beginning to realize the benefits to be derived from interesting the school children in these contests should be gratifying to those who instituted the work.

POISONOUS PLANT IS IDENTIFIED.

Abundant Yellow Flower of South and Western N. D. Proves Poisonous.

Through a correspondent the Botanical Department is able to list another poison plant for the state of North Dakota as being definitely poisonous. The plant was sent to Professor Ladd from Hettinger with the statement that children eating the blossoms became violently ill, indeed, near death.

This plant is very abundant in southern and southwestern Dakota and is known as *Thermopsis rhombifolia* (Nutt.)

It has not been previously listed definitely as a poison plant but the records in the Botanical Department show that there have been other cases of suspected poisoning of children due to the eating of the seeds of the plant. In this particular case the children ate the yellow blossoms which are very abundant. The plant is a member

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of the legume or pea family and as there are a number of such plants which are poisonous it seems certain that this one can be added to the list of poisonous plants for North Dakota.

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Published every Tuesday of the school year by the students of the North Dakota Agricultural College, at Ulsaker Bros., 207 Broadway, Fargo, N. D.
S. V. Anderson.....Publisher

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S. V. Anderson.....*Business Manager*
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Ruby Gibbens.....*Society Editor*
Cecelia Eyoifson.....*Literary Editor*
LeRoy Gifford.....*Chief Reporter*
Lars Welo.....*Reporter*
Edwin Traynor.....*Reporter*

Remember the student election next Monday. The selection of editor-in-chief and business manager of the official organ of the student body is a matter that should bear the deepest concern of every student of the College. The right kind of a college paper is no small feature of College life. Furthermore it is read by people over the entire state of North Dakota and by students in a half a hundred Colleges and Universities of the country. The quality, appearance and tone of the student paper reflects upon, the students and the college and is equal in significance to inter-collegiate athletics, debating, and oratory. The position of editor of the Spectrum is worthy of the ambition for every student and it is worthy of the man who is best qualified for it. Remember the election next Monday.

The Alumni Number of the Spectrum prevented us from giving as prominent mention of the presentation of the Ibsen bust as we intended but seeming oversight was not due to a non-appreciation of this worthy gift from the friends of the College. Nor do we fail to realize the influence that may be wrought by the presence of this noble likeness of the great Ibsen in the College Halls. The Spectrum on the part of the students wishes to extend the heartiest thanks to the donors.

The Spectrum wishes to extend thanks to all members of the Alumni Association who assisted in the editing of the Alumni number. We believe that the experiment has been worth while and hope the Alumni and the Spectrum management will in the future see fit to repeat the Alumni issue with variations in the years to come.

Will It Be Done?

The question again presents itself to the students what is going to be done about the formation of a central student organization and the introduction of the regular

Australian ballot into our student elections. Everybody seems to agree that this will be a good thing for the various activities which the students control and yet there has been but little done about it. Some time ago some of the organizations held meetings and appointed committees to confere with like committees from other organizations to try and formulate some plans for a central organization, but as only two committees have been appinted nothing has been done. It seems that now is the time for action to be taken in this matter and not put it off till next fall when it will be forgotten.

Miss McCarty at 11:00 P. M.:—"Miss M., its nearly breakfast time and you should come in."

The Dormitory girls are having a hard time, as the cook is cross and Miss McCarty has apparently deserted them.

Miss Aline McKinstry was a pleasant visitor at the Dormitory Thursday evening.

Miss Eda Flem was ill the latter part of last week.

Miss Emma Welo visited her aunt in Moorhead from Friday until Monday.

The Student says that more records were smashed in the University Inter-Scholastic this year than ever before. That's all right but they were smashed harder at the A. C. the week before.

And it rained, and the dandelions bloomed forth once more.

We are glad that our students have the opportunity of gaining the valuable experienced from summer surveys but it will be hard upon our track record this year.

Soon we are to part, but before we go examinations will be with us once more.

STUDENT ELECTION-AT NOON MONDAY

The annual election of the Student Organization is this year set for twelve o'clock noon, Monday, June 7th. At this election there will be elected officers for the ensuing year, and the Editor and Business Manager of the Spectrum. All students eligible to vote — members of the four college classes and Senior Preparatory students — should make it a point to be present.

Commencement Number.

The final number of the Spectrum for the year will not be until Wednesday, June, 9th. This is necessary in order to get a full account of the commencement events. The management has arranged to mail out the Spectrum to all student subscribers and those wishing the number sent to

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other addresses than that in the College catalog, should indicate the same to the management.

CATALOG MAY COME THIS WEEK.

The catalogue and picture book are considerable behind time this year but are expected to arrive this week. Both are looked forward to with great interest. The picture book is the first of its kind to be issued by the institution and the catalogue will contain the schedule of the new high school which is to be inaugurated next fall.

The Y. M. C. A. boys are working on a hand book which is to be prepared and ready for distribution next fall. At present the material is being written up by various members and will be gotten ready this week.

Unlike the department of publicity the Spectrum is afraid of mistatement and is a little wary of publishing a list of '09 graduates just yet.

The picnic party planned for Saturday was called off on account of the rain.

The appearance of the running track at present would indicate that a rush order should be sent for boats a rowing match may take the place of the track meet.

Take a look at those dainty shoes and nifty socks at the Hub, Moorhead.

The Seniors commencement invitations are out. The are neatly engraved with the design of the class ring embossed in colors at the head.

Don't forget to see Bachenheimer of the Hub, Moorhead, before going home for vacation.

Yesterday being Decoration day all classes were excused and Chapel was dispensed with that all might be free to attend the Grand Army exercises.

Did you notice anything like a worried expression on the face of any of the Seniors after the standing committee reported?

Several inches of rain in the basement of the Administration Building and a lesser amount in the basement of the Library were among the results of Saturday's deluge.

Visiting Fargoan:—"What's the matter? Are all of the students out here going to get married?"

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the empty air by calling the Seniors quitters. The Seniors offered to play upon Friday when all of their men would be together. At this the faculty grew more quiet and haven't said "Baseball", above a whisper.

BERTS LITTLE BROTHER GETS MARRIED TOO.

Mr. Walter Haskins and Miss Kitty Garry were united in marriage at the bride's home in Morris, Minn., yesterday. Mr. Haskins is a well known student at the College and Miss Garry is a prominent young lady from Morris, Minn. The happy couple will return to Fargo, where Mr. Haskins will finish his term of school at the College and then they will take an extended trip to the Pacific coast where they will take in the fair and other points of interest. Mr. Haskins and his bride have the best wishes of their host of friends at the College for a long and happy journey through life.

POPULAR HEAD OF ATHLETIC DEPT RESIGNS

Coach Paul Magoffin Springs Surprise in Athletic Circles.

Athletic circles were surprised a little over a week ago by the unexpected resignation of Coach Magoffin to take effect at the end of his term. Many regrets by the many friends of the coach were expressed at the news. Coach Magoffin has won a place in the hearts of all the men that have trained under him and his friends out of the under him, and his friends out of the College are not few.

As a coach, Mr. Magoffin stands steadfastly for clean and true sportsmanship. He has been working under great disadvantages throughout the year and yet has done much to popularize athletics at the College.

The action of the Board as the acceptance of the resignation and the filling of the vacancy will be watched with the greatest of interest.

INTER STATE ORATORICAL CONTEST NEXT TUESDAY

North and South Dakota Meet in Annual Contest at Grand Forks June 8th.

North Dakota has the Annual Inter State Oratorical Contest this year. The meeting will be held at Grand Forks under the auspices of the University as they carried off first place in the state contest which was held at Fargo April 9th. The contest will be held in the new Oratori Auditorium at 8 o'clock Tuesday evening, June 8th. There will be four orators contesting for the oratorical honors of North and South Dakota, each state having two representatives.

Prizes.

The Western League of Oratory, under whose auspices the contest is conducted, presents a gold medal to the winner of first place and a silver medal to the winner of second place.

After the meeting there will be a business meeting of the executive committee of the league to settle up the business of the contest and elect officers for next year.

There is always something new and original at the Hub, Moorhead

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Societies

Y. W. C. A.

The Alpha Mu Fraternity were Class met Wednesday, May 26 at the Dormitory. There was a god sized crowd of girls and much interest was shown in the life of the Chinese Slave girl.

A business meeting was held after the Mission Study and the following members were elected to go to the Lake Geneva conference:

- Jessie Thompson,
- Fern Dynes,
- Lucy Cockburn,
- Gertrude Gibbens.
- Agnes Peterson.

ALPHA MU-DANCE.

The Alfa Mu Fraternity were host at a very enjoyable dance Friday evening, May 28th. The Armory was tastefully decorated with the frat colors, blue and black. Altho the crowd was not as large as it has been at some of the dances this year, everybody reports a good time. Delicious punch was served throughout the evening and the Mus are to be congratulated upon the success of their entertainment.

SENIOR RECEPTION WEDNESDAY EVENING

The President and Faculty of the College have extended formal invitations to the Senior Reception to be held Wednesday evening, June 2nd, 8:00 P. M., at the College Dormitory.

AND IT DID NOT COME OFF.

When the Seniors Were Away the Faculty Wanted to Play.

The Senoir-Faculty baseball game scheduled for Monday of last week was postponed indefinitely on account of the muddy condition of the diamond. The following day the faculty, knowing that Nemzek and Murphy were playing with the regulars in Moorhead, that Lanxon was a hundred miles from Fargo, and that Dave Moore was out of the game with an injured finger, decided that this would be a good time to play the game. Without consulting the Seniors they went ahead and advertised the game for 4:00 P. M. When the Seniors did not put in their appearance at the stated time the faculty vented their wrath on

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Prof. Ince Reviews Gov't Work On Soils

Out Lines and Discusses the Soil Toxin Theory as Applied to Soil Fertility.

"Certain Factors in Soil Fertility" was the subject of an address by Prof. Ince at Wednesday's meeting of the Polytechnic Society. The addresses consisted of a review of the work of the U. S. Bureau of Soils upon this subject with special reference to their study of the organic constituents of soils and the experiments which they have conducted which have led to their conclusions as to the presence of deleterious substances in the soil's.

"The idea that agricultural soils may often contain substances which retard plant growth is not a new one but until recently it has taken no prominent part in the modern literature of soil fertility. The most important consideration of this subject by early writers was by DeCandolle in 1832; he reasoned that agricultural plants might produce root excretions which were injurious to the plants excreting them. DeCandolle also thought that practically all plants gave off excretions, and from these ideas developed the theory as to the harm from continuous cropping of the same plant species and of the rotation of crops. He distinguished

between true exhaustion—depletion of soluble nutrient salts and false exhaustion—injurious excretions."

From that time on little was done upon the subject until it was taken up by the investigators of the bureau of soils. "Their work leading up to this question was that concerned with the subject of soils solutions and we will state very briefly some of the conclusions from their experiments.

"1st. Practically all arable soils contain all of the rock forming minerals.

"2nd. Some at least, of each mineral species in the soil is presenting surfaces of the mineral as such to the solvent action of the soil water.

"3rd. The minerals of the soils will continue to dissolve. It is thus that the plant foods are made available to the plant.

"4th. The concentration of the soil solution with respect to the principal mineral plant food nutrients is the same for practically all soils, and further is sufficient for the growth and development of crops. If a soil is infertile, then, it may not be due to a lack of available plant food but to a negative physical factor lack of water, or an unfavorable biological factor; or an unfavorable chemical factor as the presence of toxic compounds, whether inorganic as alkali salts or organic, to be discussed.

"Concerning the last point their investigations may be divided into

five parts:—1st, Experiments to prove that soils may be infertile because of the presence of substances inimical to plant growth; 2nd, Plants may produce, possibly excrete, as the result of plant growth, organic compounds which are poisonous to the plants producing them; 3rd, Many of the organic constituents of plants which on the death and decay of vegetation find their way into the soils, or compounds which may arise during subsequent changes in the soils, inhibit growth when presented in solution to the roots of the growing plants.

"The excretion of toxic substances is known in certain groups of the lower plants. It has been shown experimentally that the growth of the fungus hyphae is away from the regions already occupied by numbers of hyphae and of even in some cases toward toxic inorganic salts.

"Bacteriology has demonstrated quite distinctly that deleterious substances are formed during the growth of the cultures. The reaction of the waste products of a number of bacteria upon the same and other species has been studied."

Concerning the experimentation of the Bureau of Soils it will only be possible to briefly summarize their results as presented by Mr. Ince. In regard to the presence of substances in soils and soil extracts which are inhibitory to plant growth it may be said that they proved by their experiments that:—"A water extract from a

poor soil is poorer medium for plant growth than the water extract of a good soil. The growth of seedlings in an extract of a poor soil is often less than in pure distilled water.

Since, however, there is no mineral nutrient in distilled water and there is in the soil extract, the diminished growth of the latter must be due to the presence of something harmful."

Delicate experiments were conducted with agar jelly which showed that plant roots were repelled from agar which had been used previously as a medium for plant growth.

That constituents of plants may become part of the soil after death and decay has in a measure been proved by experimenting with such products of decay from the synthetic standpoint.

"Concerning the nature and identity of harmful substances in soils the evidence that the inhibitory bodies of soil fertility are organic is both direct and indirect. As indirect evidence we have the experiments already mentioned and as direct evidence there have been isolated and identified certain organic bodies from the soil which are inhibitory to plant growth and which behave in solution as does the extract of a fertile soil."

Following Mr. Ince's paper Professor Beckwith presented an informal report covering some bacterial phases of soil fertility.

DEAN SHEPPERD WRITES HISTORY

Compiles Chapter on Agriculture in the Red River Valley Region.

"History of Agriculture in the Red River Valley" is the title of a chapter written by Dean Shepperd for a book entitled "The History of the Red River Valley", which is being published by the Herald Printing Co., of Grand Forks. The compilation of this volume has been in progress for some time and Dean Shepperd was requested to contribute a chapter dealing with the agricultural phase of the history of the Red River Valley Region. The chapter which was completed some time ago is full of interest from start to finish and traces the agricultural development of the Red River Valley from 1817, when the Selkirk Colony sowed the first wheat in the vicinity of Fort Garry, up to the present time when the valley abounds with prosperous settlers.

ANNUAL ALUMNI BANQUET AND REUNION.

Commencement Events Will be Closed by Annual Get Together Of Old Grads.

The Annual Alumni Banquet and Reunion this year promises to eclipse those of the past. The officers of the Association have been busy upon the plans for some time and have arranged to have the banquet at 6:30 P. M., June 8th, in Pirie's Hall. The banquet will be followed by toasts and the toasts by a social session and dancing.

Toasts.

The toastmaster this year will be one of the class of '05 who will be remembered as the "favorite" in banquet hall during his college career, Adolph Mikkelson. The first graduating class of the college will be represented on the program by Merton Field '95. President Worst will be the faculty

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speaker; and Miss Matilda Thompson will toast for the graduating class. The other speakers have not been announced but it is expected that that two more representatives of the old classes will be added to the list.

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PERSONAL
Two articles descriptive of Chemical research upon Phosphoric Acid by Dr. Abbott will appear in the July number of the Journal of the American Chemical Society.

William Mendenhall spent the past week at the College visiting with his brother Dean.

Professor Arvold expects to deliver an address at Madison, Minn. upon June 5th.

Mr. William R. Lanxon spent the past week at Alexandria, Minnesota, where he was engaged in laying out plans and superintending planting, etc., on the high school farm at that place. This will be Mr. Lanxon's permanent location after commencement.

Mrs. Ash will spend the summer at Los Angeles, Seattle and other Pacific coast points visiting relatives.

Gabriel Lundy will take Mr. Jensen's place as janitor of the Engineering building during the summer.

State Superintendent, W. L. Stockwell has been secured as speaker at the Industrial Summer School. The subject of his address will be the consolidation of schools.

Mr. Lembecke paid the College a short visit last Saturday.

Leslie Wheeler spent a busy day Friday, taking special exams preparatory to leaving College Monday. Mr. Wheeler has secured a position with a surveying party on the N. P. R. R.

John Corbett, one of our former students, is just completing the building of a three story brick house at Williston. This building will be the home of the Williston Graphic of which Mr. Corbett is the publisher.

B. H. Thorlakson, a winter term student who has been ill at the Darrow Hospital for the past nine weeks, is rapidly recovering and will soon be able to return to his home.

Prof. Guess paid Winnipeg a business visit on Sunday and Monday.

The University of Minnesota has granted Prof. Weeks the Degree Master of Arts for advanced work in education and psychology.

Miss Sopha Thomas, '04, greeted her old friends upon the campus Friday morning. She will remain at the College until after commencement before returning to Oregon.

Chas. Ruzicka visited his father at White Earth, Minn., the first part of last week.

Professor Willard will deliver the Commencement Address at the Harvey High School upon June 4th, 1909.

Professors Bolley, Bergman, Bell, McArdle and Mr. Stambaugh made up a fishing party at the Detroit Lakes last Saturday.

Messers Chambers and Scott Drummond left College the first of last week to assume positions with a Canadian Reclamation Survey party.

Geo. P. Grout, '08, is listed among the University of Minnesota graduates and will receive the degree of M. S. on June 10th. Professor Haecker who has gone abroad recommended before leaving that Mr. Grout be raised in title and salary to the position of Assistant Professor of Anamyl Husbandry at the June meeting of the board of regents.

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Mr. Sanderson, the College Miller, is an attendant at the convention of operative millers at Milwaukee this week.

Mr. Jacobs of the U. S. D. A. Bureau of Chemistry completed his special cereal work which he was conducting at the College and returned Friday night to Washington, D. C.

Major Parker, Capt. Hill, and Lieutenants Thien and Niel were recommended for commissions in the regular army by the Military Department.

Prof. Beckwith and Mr. T. E. Mills were conferred the 3rd degree of the Masonic order on Friday evening of last week.

has completed her work as teacher of Domestic Science and Botany in the Larimore High School, and has received a good promotion by the way of contract with the Candy High School to teach Cooking, Sewing and Biology.

Cando is completing a new High School and the Domestic Science laboratories will be especially fitted for the work.

Band Failed to Get Their Shoot.
The band almost had target practice Friday, that day having been fixed upon for that purpose some time ago. Luckily for the target, however, the Major forgot to bring the key to the gun room, so the long looked for function will be postponed till another year.

Supt. O. A. Thompson of the Edgeley Substation was a visitor at the College last week conferring with Dean Shepperd in regard to plans of a seed house which is to be built at the substation.

Miss Elizabeth Rice, '08, is among the first of the Alumni to return to the College for the commencement festivities.

The rumor that W. L. Stockham assistant in the department of Chemistry, was to leave to take up a position in Delaware is now contradicted. Mr. Stockham has announced definitely that he will remain with us.

Miss Alma Johnson, who was forced to undergo an operation for appendicitis a little over a week ago is now far on the road to recovery.

Messers Bailey and Fitz left the College the latter part of last week. They will attend the convention of cooperative millers at Milwaukee this week and then attend a conference of the bureau of grain standardization at Washington, D. C. M. Bailey will return to the College in about six weeks. Mr. Fitz will spend a considerable part of the summer in the Southwest.

Miss Elizabeth Rice an '08 graduate of the General Science Course



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Baseball Team Takes A Couple

Concordia Game Was Taken Easy —Wahpeton Proves to be Easier.

RAIN SAVES V. C.'S SCALP

One More Chance to Soak the Preachers —Last Game Sat. Morning.

Wednesday our heroes of the diamond defeated Concordia in Moorhead by the interesting score of 14 to 4. Murphy was in the box and judging from the way things went that he showed his Irish blood. The batting on the part of our men was strong and the way they hit Miller sure wasn't slow. On the whole the game was so one-sided that it soon became a joke for the fans.

Ha! Ha! Wah-pe-ton.
Wahpeton Science was found to be easier pickings Thursday. Our team played that aggregation at Wahpeton in a game resulting in a score of 21 to 7 in our favor. Here Nemzek was in the box. From the score one will realize that it was a speedy contest. Our slab artists found the batting here easier than the day before and they ran around the diamond merely as a matter of responsibility.

Saturday morning the team so-journed to Valley City to play the Pedagogues but owing to the terrific rain storm that came up within a minute after the game was started it was called off.

Coming Games.
The last two games of the '09 season will be played this week. The team will have its last whack at the Parsons Thursday. There will be a good time for the rooters to show their loyalty to the A. C. Saturday morning the team will play the closing game of the season with Mayville Normal.

Take home an "L" system and show the folks that you know a thing or two about clothes.

Sunday school picnic upon the Campus yesterday gave the janitors something to do.

DANDELION SPAYING COMMENCED EARLIER.

Past Season's Work Effective — Spraying Always Brings Rain.

The dandelion spraying work has commenced earlier than usual this season. It is evident from the appearances of the campus this spring that the work of last season was effective in proportion to the effort put forth. Many areas of the campus which were properly sprayed, especially by the hand sprayer, are practically free from dandelions and the areas which were sprayed by means of the field sprayer show mostly only the young dandelions, or very weak ones from the old roots.

Last Thursday and Friday the big field sprayer was in operation over forty acres of ground.

Professor Bolley always consults the Weather Department before he commences spraying operations on a large scale. But he informs the Spectrum correspondent that if there is anyone in the state who wants rain, to advice them to put on about \$40.00 worth of iron sulfate and proceed to do a good job of spraying. Under these conditions there is apt to be a heavy rain within a few hours, at least soon enough to destroy the results.

DEAN SHEPPERD VISITS WILLISTON.

Confers With U. S. D. A. Men — Gov't Will Irrigate Sub-Station.

Dean Shepperd arrived Saturday morning from Wiliston where he had been visiting the sub-station at that point and conferring with Professors Seofield and Chilcott of the U. S. Department of Agriculture in regard to the irrigation of the sub-station farm. As a result of this conference the Department has agreed to furnish three thousand dollars with which to develop the irrigation plant. This will be a great help in conducting the work on the sub-station along lines which will be of benefit to the surrounding community. Irrigation will eventually be practiced on a considerable scale in that region, and that being the case it is well that there will be an opportunity to experiment in that direction.

There has been a great deal of work done on the sub-station farm this spring, all of which is of a very high order.

The folks at home won't regret sending that extra check when they see you in an "L" system. Better call at the Hub, Moorhead.

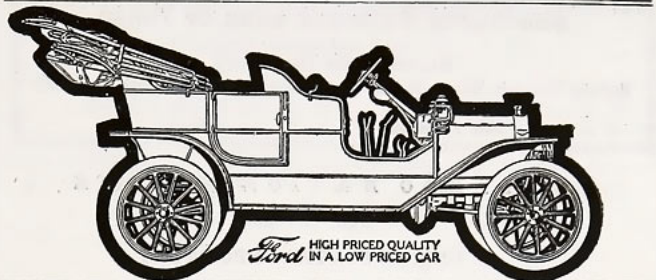


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