

Clarence Wallen

A MERRY CHRISTMAS AND A HAPPY NEW YEAR!

THE WEEKLY SPECTRUM

Official Publication of the Student Organization.

VOL. XVI.

Number 13.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY, DEC. 21st, 1909.

PRICE 5 CENTS.

Students Now Organized To Raise Monument Fund

Subscription Blanks Have Been Distributed and Active Work Will Begin.

STATE WILL BE CANVASSED

Students Will Cover Entire State During Christmas Vacation

Since the beginning of history people have fittingly honored their distinguished men by erecting, in enduring stone or bronze, their likeness. The wisdom of this has never been questioned. Mankind has abundant need at all times to be reminded of the value of a life highly devoted to the welfare and service of others.

He who dares and endures and sacrifices much for the cause of fairness and justice should be rightly honored, not for his own glory, but that selfishness and slavishness shall be rebuked and discountenanced by comparison.

Theodore Roosevelt stands for a type of American citizenship that all will do well to honor and to follow. Expounding no new truth he has applied to our own time and conditions the principles of fair play and equal opportunity in such vigorous and effective manner as to awaken public attention and public conscience, and to encourage and benefit all who seek to advance through their own efforts rather than prey upon society. His untiring efforts in behalf of those who create the wealth and bear the burdens has gained for him an army of staunch supporters such as few men in any age or country could demand. Because of his distinguished services it has been deemed fitting to erect in his honor a bronze statue upon the campus of the North Dakota Agricultural College.

Those knowing the attachment of Roosevelt for North Dakota, where he once lived, and his insistence upon the necessity of agricultural and industrial education, will concede that no fitter place could be chosen. Roosevelt said:

"Progress cannot permanently consist in the abandonment of physical labor, but in the development of physical labor, so that it shall represent more and more the work of the trained mind in the trained body. We need the training, the manual dexterity and industrial intelligence which can best be given in a good agricultural or mechanical school. If there is one lesson taught by history, it is that the permanent greatness of any state must ultimately depend more upon the character of its country population than upon anything else."

Such statements as these naturally find a hearty response from A. C. students and doubtless will from the class of people that go to make up the population of North Dakota. It is believed that they will be glad to contribute for this purpose. One dollar each from only the well-to-do farmers and other citizens will make a



Gustave Vigeland, Sculptor, Christiania, Norway. Fac-simile of the statue to be erected in the near future on the Agricultural College Campus. Theodore Roosevelt was at one time deputy sheriff of Stark Co., N. D., later president of the U. S.

fund large enough for the purpose.

The statue is to be one and one-half natural size and is to cost about fifteen thousand dollars. Its character is shown in the accompanying cut. Cast in the finest bronze, it will endure for all time. Those contributing will be presented in due time with a richly ornamented certificate having an artistically engraved cut of the statue.

All contributions obtained thru the solicitation of students will be reported to Secretary Yoder, who will transfer such funds to the Secretary and Treasurer, Dr. H. O. Fjelde, Abercrombie, N. D.

It is urged that the canvas will be carried on as energetically as possible during the holiday vacation and that every student solicit among his friends for small sums of money to insure the erection of this monument on the A. C. campus. This is a student movement and should appeal especially to the farmers of the state. Roosevelt is a friend of all the people. The people should gladly respond in his honor.

- Edwin Evingson, Pres.
- Vern A. McCall, Secy.
- J. A. Clark
- John Wentz
- T. E. Mills.

—Student's Auxiliary Committee. Roosevelt Monument Association To encourage the students to an energetic canvass, President Worst has announced that a prize of five dollars will be given to the one who brings in the largest subscription list after the holidays, while the one with the second largest will receive three dollars.

WANTED

Some student managers for the various branches of athletics. For particulars see Manager Dynes.

WANTED.

For cadet band one base player, and one bassoon player. Will furnish instrument and instruction. See the director of music.

REPRESENTATIVES NEARLY ALL ELECTED

All College Classes And Part of High School and Special Courses Have Elected Representatives to Student Council.

Since the final adoption of the plan for replacing the old Student Organization with a representative body, most of the classes have elected their representatives and the greater parts of the members of the Council which will organize at the beginning of the next term are now nearly all decided upon. Those elected thus far are as follows:

Seniors.

- Harold McKinstry
- J. Allen Clark
- Thomas Lough
- Cecilia Eyolfson
- Peter Olson

Juniors.

- Ruby Gibbens
- Chas. Ruzicka
- Harold Dodge
- Chester Holkesvig
- LeRoy Gifford

Sophomores.

- Ben Barrett
- Addie Stafford
- Amos Ewen
- Edwin Evingson
- Alfred Anderson

Freshmen.

- Chas. Hammond
- William Rommel
- Edgar Olson
- Clarence Williams
- Beatrice Alm

Senior Preparatory.

- Clarence Walters
- Irvine Storland

Power Machinery.

Guy Pyle. This still leaves a number of courses to elect their representatives. Any classes or courses not yet organized should bear in mind the fact that all representatives must be elected on or before Dec. 23. This leaves but a short time and action should be taken at once.

PREP. SOCIETIES LONG FOR STRIFE

Castalians Challenge Hesperians To Declamatory Contest.

The following is the challenge and acceptance that passed between the two high school literary societies:

"We, the Castalians, although we realize the superiority of man's mind and the utmost weakness of our womanly talents, nevertheless, do hereby challenge the mighty Hesperians to a declamatory contest to be held in February, 1910."

The reply ran as follows:

"Inasmuch as the more gente sex have stepped out from under the protecting arms of their natural guardian, and are striving to make their presence felt in social and political circles, and inasmuch as man, who has ever been tolerant towards them desires that they may try their delicate wings, knowing that in the near future they, like the prodigal son, shall soon return to their natural habitat and say, 'we have sinned against our natures and against mankind. Take us again and subdue us as God intended we should be,' we the representatives of the lords of creation, do hereby humble our selves and accept your untimely challenge to meet you in a declamatory contest in Feb., 1910"

EXAMINATIONS.

The regular examinations for the fall term will be held as follows:

- First hour subjects—8 to 10 a. m., Wednesday.
 - Second hour subjects—10 to 12 a. m., Wednesday.
 - Third hour subjects—8 to 10 a. m. Thursday.
 - Fourth hour subjects—10 to 12 a. m., Thursday.
- The fall term will close at noon Thursday. The winter term will open on Tuesday, Jan. 4, 1910.

Serious Conflagration Very Narrowly Averted

Overalls In Locker in Mechanical Building Catch Fire Late Thursday Afternoon

DEAN KEENE SMELLS SMOKE

Whiff of Smoke As He Is Leaving Building Results In Discovery Of Fire.

A curious chain of circumstances was all that prevented the entire engineering building from going up in smoke last Thursday evening. Just as he was going home, Dean Keene noticed the odor of burning cotton and set out to investigate. He went thru the hall and entered the old Mechanical Building and noticed that the odor decreased as he got further from the hallway so he retraced his steps and finally located the fire in locker 27 in the hallway. The fire was only smoldering then, so that he thought he would have time to go and get a chisel to break the hasp and open the locker, but by the time he returned with the chisel the locker was blazing so it was that best to break the panel and so remove the burning clothes.

It is that that some student in the forge shop had gotten a spark in his clothes and had not extinguished the fire when he put his overalls into the locker, and as all the lockers are well ventilated the spark kept on smoldering instead of going out.

If it hadn't been for the fact that Dean Keene happened to be going home just when he did the fire would have probably have gone on unnoticed until it was beyond control. The board has made no fire fighting provisions in any building except the Chemical and there they have racks of hose placed at different parts of the building but these would be of no use in case of fire as the couplings on the hose do not fit those on the water connection.

UELAND ELECTED CAPTAIN OF BASKET BALL TEAM

Ueland Played on Teams of '07 and '08 and Showed His Ability as a Fast Steady Player.

Last Monday evening the basketball men held their annual election at which time they chose Arthur Ueland as captain for the year of 1910. Mr. Ueland is well fitted for this position, having represented the institution in the teams of '07 and '08 when he gained recognition as a player of unusual ability. He did not return last year, but is back again this season and has given good proof of his worth as a player by making sure of a place on the first team when such a large number of excellent players are trying for positions. Mr. Ueland is known as a player of exceptional nerve and endurance and no one now engaged in athletics is better fitted to lead the team through the hard series of games arranged for the winter months.

Dean Bolley Will Go To Boston Next Week

American Association For Advancement of Science Will Be In Session at That Time.

Prof. H. L. Bolley will attend the meeting of the American Association for the Advancement of Science, which meets in Boston, Dec. 27 to Jan. 3, inclusive. Aside from the American Association, which is in a large way the parent association of most of the American scientific societies and organizations there will meet in Boston a large number of these organizations. There are many hundred members and fellows of these organizations and the meetings occur in sections, covering special fields of each of the great branches of science, as for example, Botany, Chemistry, Zoology, Physics, Entomology, and other. These sections are often sub-divided into sub-sections fitting the special branches within the large divisions of science. Among the associations or societies which meet at the same time are the Botanical Society of America, Phytopathological Society of America and the Society of Official Seed Analysts. It is these three organizations in which Professor Bolley is specially interested, the latter in particular, as this meeting will be attended by the various State Seed commissioners, and government officials that are working upon or under pure seed laws.

North Dakota is one of the comparatively few states that has a comprehensive pure seed law.

The members will discuss, among other questions, the desirability of attempting to unify the seed legislation in the various states. This is a matter of considerable importance as some people's idea of unification seems to be of such nature that a law when in action could be of little use.

Professor Bolley will read a paper prepared by Professor Beck with upon certain mycological studies that are being made upon wheat soils by the Department of Botany of the North Dakota Experiment station. This paper will be presented to the Society of Plant Pathologists, and deals with the question of the possible cause of deterioration in wheat yields upon old but fertile lands of the Red River Valley.

Professor Bolley has also been asked to present a discussion of the seed question as affecting the interests of the North Dakota farmers seed show. This will be given before the Society of Seed Analysts.

While on the trip Professor Bolley will visit one or more of the large seed houses in New York and Chicago and the Pure Seed laboratories in operation at Orono, Maine, and Ottawa, Canada.

The attraction underlined at the Fargo operahouse for the Christmas matinee and night is "Thorns and Orange Blossoms."

NEW BOOK ON SOILS IS NOW ON MARKET.

Cornell Men Write Excellent Text For Students In This Line of Work.

A new book on soils has recently been published by Professor's Lyon and Tippen of Cornell University which treats the subject from a practical standpoint. It is said by the authors to be the result of teaching soil technology for a series of years. It is written from a standpoint of the application of science to soil problems as they are related to crop production rather than to the underlying sciences.

It is unusually well illustrated and would constitute a splendid acquisition to the library of a student taking soil and crop studies.

It is the first of a series of books to be edited by Dean L. H. Bailey of Cornell University.

STOCKMEN CONVENE IN FARGO NEXT MONTH.

Meeting Will be Held In Connection With Grain Grower's Convention.

The annual meeting of the North Dakota Live Stock Association will be held in connection with the Tri-State Grain Growers Convention this year.

The program for Wednesday Jan. 19 is under the auspices of the Live Stock Association and will be given over entirely to the discussion of live stock and dairy problems.

Their third annual banquet will be held Jan. 18. Following the banquet will be the business meeting.

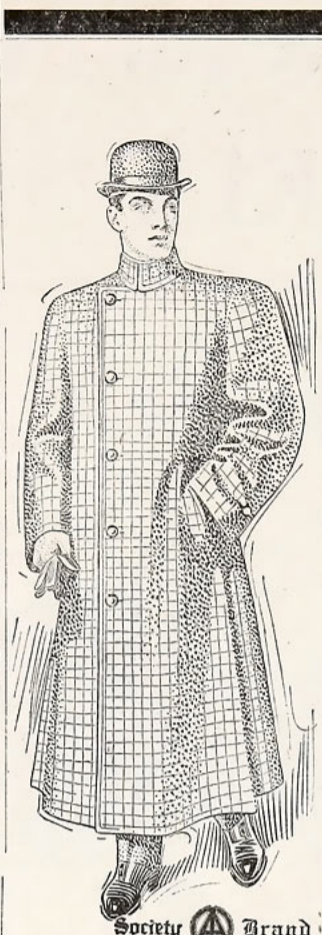
The membership is growing rapidly and the association is having considerable influence in helping the live stock industry of this state.

NEW DECLAMATORY CONTEST.

The Short Course Declamatory Contest will be held Feb. 18. This contest is open to all students in the short courses. Each speaker will be allowed twelve minutes for the delivery of the declamation. If the number of participants is very large a preliminary will undoubtedly be held. Prizes will be awarded to those receiving first, second and third places. First prize will consist of a five dollar gold piece and second and third prize will be sets of books. All those wishing to enter will please hand their names to Prof. Arvold as soon as possible.

"Thorns and Orange Blossoms" is the title of a play with an atmosphere as soft as an April shower; an interesting plot of love and sensational incidents, a magnificent production of sunshine and flowers.

Dr. Batt will attend the League of Public Library Commissions representing 29 states, which will be held in Chicago during the first week of January.



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WANTED.
Wanted:—a few student managers in athletics by Professor Dynes.

Prof. Randlett is expected back from the National Corn Show this week.

The question asked on the campus these last days.

Who's dead?
Why so?
Why the flag has been at half mast all week.

Prof. Churchill will not return until after the Holidays. From the Corn Show at Omaha he left for points in Kansas and Nebraska on a visit to friends.

John Brander is quite ill with the grip.

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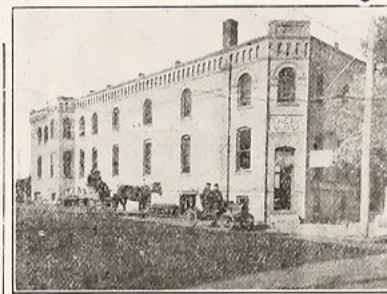
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Edward Stewart one of our former graduates, was seen on the campus Friday. He will spend Christmas at his home near Fargo.

Dean Keene is in St. Paul this week attending the athletic conference of twelve colleges in North and South Dakota and Minnesota to discuss rules of eligibility, standard of scholarship, etc.

Prof. Dynes leaves for Ontario, Canada on a visit to relatives and as a delegate to the International Convention of the Students Volunteer Movement.

E. G. Schollander of the class of '05, was seen on the campus last Saturday.

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ENGINEERING DEPARTMENT WELL SUPPLIED WITH ENGINES
 Full Equipment of Steam And Gasoline Engine Now In Laboratories.

During the past term there has been added to the equipment of the steam and gas engineering laboratory several pieces of apparatus worthy of note. These have been donated or loaned to the College thru the kindness of the different manufacturers. As in the past these manufacturers have been very kind in donating to the College.

Perhaps the largest piece of apparatus was one of the Avery Co. undermounted Traction Engines, this makes four Traction Engines which have been loaned to the College, and this last addition takes up all the available space so that we cannot add any more engines until our laboratory space becomes larger. The Engine Makers who are represented in the Steam Laboratory are The Avery Co., The J. I. Case Co., The Port Huron Co., and The Gaar Scott Co., this last company being represented by a complete engine mounted upon a concrete base instead of upon a boiler.

Another piece of apparatus which is of special interest to Traction Engineering students is a Gould Balanced Valve of a size suitable for traction engine work.

Among the firms represented by their engines in the Gas Engine division of the laboratory, The I. H. C. stand at the head of the list as regards the number of pieces donated. They have three of their stationary engines ranging from 10 to 4 H. P. installed in the laboratory and one of their engines cut so that it shows the section installed in the lecture room. This sectional model is of almost inestimable value in teaching the student the different functions of the parts of the gas engine. In addition to these they have one of their double cylinder auto wagons in the laboratory.

The Stickney Co. have two of their engines here one stationary and one portable. The McVicker Co., one four horse engine. The Fargo Foundry have one four horse engine and the Crane and Ordway Co., have one of their 3 horse models installed here.

Fairbanks Morse and Company have one of their Farm Lighting Units, consisting of gas engine and dynamo, under way and expect to have it here for the opening of the winter term.

These engines together with the Olds engine which was formerly used to run the machine shop and several small engines built here afford the students of steam and gas engineering an opportunity of becoming familiar with the common types of engines used in this state.

A good assortment of gas engine accessories like carbureters, spark coils, auto sparkers, magnets, spark plugs, Volt meters, and ammeters are also at hand.

The Schebler Co. added to the assortment of carburetors this year with two of their latest models prepared in sectional form. The Duplex Coil Co., have contributed one of their Duplex Coils and a four part timer. The Metal Specialties Co. have given the use of one of their compression ignitors. The Red Rite Meter Works and Julius Andrae and Sons each contributed a combined Volt Ammeter.

Don't forget the Christmas matinee at the Fargo opera-house.

LIBRARIES WITHIN REACH OF EVERY COMMUNITY
 Public Library Commission Offers Traveling Libraries to Any Club of Not Less Than Six Members.

"Facts About Traveling Libraries" is the title of a leaflet which contains a number of interesting and helpful facts in regard to these libraries. The leaflet is sent out by the North Dakota Library Commission and in substance is as follows:

What They Are.
 Collections of forty or fifty books for reading or study by adults or children, packed in substantial wooden cases in which the books are kept when not in use.

To Whom Loaned.
 To any village, town or community which will form a library association with not less than six members, or any school, study club, or similar organization which will act as a library association.

What They Cost.
 They are entirely free except for cost of transportation.

Conditions.
 The association must agree.

1. To be responsible for the safe keeping and return of the library.
 2. To manage it in accordance with the rules of the Public Library association.
 3. To return it at the end of six months to the commission.

How To Get One.
 Write to the Public Library Commission, Bismarck, for an application blank to be filled out in sending for a library and for directions as to its management.

This leaflet has been viewed by the different Library commissions with considerable interest and a number of flattering comments have been received.

Theodore Christinson, one of our first farm husbandry graduates, was selected by the board of trustees to assist the superintendent of Demonstration farms by taking immediate charge of the ninety acre farm at McCleod.

Our sample of corn sold for \$10.50 to a well known South Dakota seedsman although it was only one peck. He also paid \$13.00 for ten ears of station corn.

The Colorado Experiment Station secured our best ear for the price of \$3.50.

There has been a heavy call for N. Dak. No. 155 pedigreed flax lately.

The Breeders Gazette has made a special request of Professor Shepperd to trace the origin and history of a herd of white polled shorthorns at Mandan. This herd has recently attracted considerable attention throughout the United States as a polled white shorthorn, is a very uncommon thing and also because the owner had to sell the largest part of the herd as settlers were taking up all the grazing land.

The Iowa Club of the N. Dak. Educational association of which Dean Shepperd is chairman, expect to have a social program at Minot at the meeting of the educational association.

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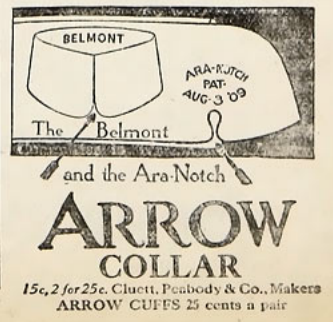
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THE WEEKLY SPECTRUM

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

J. Allen Clark, Publisher

Entered as second class matter September 28, 1907, at the post-office at Agricultural College, N. D., under Act of Congress of March 3, 1879.

Subscribers are requested to give prompt notice of any non-delivery or delay of papers. All communications should be addressed to *Business Manager* "The Weekly Spectrum," Agricultural College, N. Dak.

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Roger Amidon Reporter

Last week's issue of the Spectrum, which was gotten out entirely by the Freshman class in English VII, showed conclusively that the class of '13 will have no lack of journalistic ability to uphold its honor along such lines during its college career. Aside from a few suggestions as to the office routine of getting out the paper, the work was carried on entirely without outside assistance. To begin without previous experience and gather sufficient news to fill the paper is no small task in itself and this only constitutes one of the items of the weekly routine. In all phases of the work, however, the Freshmen staff made good.

Not only did the Freshmen prove conclusively that they were capable of getting out the paper, but they gained a fund of practical knowledge of the work, which in connection with what they have learned in the class room, will far better fit them for places on the regular staff in future years. One of the great obstacles which the Spectrum has always had to contend with was the fact that practically none of those outside of the members of the staff had any definite understanding of the work involved and how it was done. This has made it difficult to fill positions on the staff and in many cases prevents the student body from taking a proper interest in their college paper.

If each year's Freshmen class spends a little time in studying the matter both from a literary and practical standpoint, much better results are sure to be obtained.

The regular staff being familiar with the difficulties of the undertaking heartily congratulate the Freshmen staff on their success.

With this issue the Spectrum appears for the last time during the year 1909. The term will soon be over and each student

will have completed another step toward the completion of his or her college career. As a whole the term has been a most successful one. The college has witnessed a most gratifying increase in attendance, new courses, buildings and equipment have been added, better college spirit has been manifest than ever before and in every respect the past three months have been a period of progress.

The grade of scholarship maintained, is still to be ascertained, and it is to be hoped that the percentage of failure in the examinations of the next two days will be the smallest in the history of the institution. It is too late for the student who has neglected his lessons to make up the deficiency now, but every one should return after the holidays with the determination to maintain a better standing than before, and thus not only do better individual work but also raise the scholarship of the institution.

LIBRARIAN'S REPORT

Fall Term, 1909.

The total number of bound volumes added to the library during the fall term is 577, 19 more than during the fall term of 1908.

The following table shows the number of volumes added to each department:

Public Documents, 70; Chemistry, 9; History, 2; English, 12; Magazines, 256; Domestic Science, 32; Mechanical, 19; Agriculture, 12; Exp. Sta., Repts., 20; Civ. Eng. Repts., 108; Library, 16; Education, 6; Miscellaneous, 10.

The number of books drawn from the library for the past three months is 2234, showing an increase of 1234 over the fall term of 1907. Of the books taken from the library, 598 were miscellaneous, 870 magazines, 267 literature, 345 fiction, 154 history, biography and travel.

An Appreciation.

We, the undersigned, wish to take this opportunity to thank the "Association of Editors" for their kind recognition of our air in last week's issue of the Spectrum. The casual observer, we fear, may have underestimated the full extent of our contributions to the paper, but the "Editorial Association" apparently realize our true worth. This lies in the fact that they have distinguished us by using our names in somewhat of a different way than the rest of the staff. And therein lies the culmination of the efforts in search of that "humoristic vein" for which the aforesaid "Association" so diligently strove.

Edwin Traynor,
Chester Holkesvig.

Startling Figures Given.

President Worst, whose address at the corn show at Omaha, was on the conservation of soil fertility, recently gave the following startling figures:

The amount of fertility consumed by the current crop of wheat amounts to \$262,000,000 reckoned at commercial fertilizer rates. The corn crop takes from the soil \$570,000,000 annually. Oats, \$157,000,000. Barley, \$37,000,000. Flax, \$14,000,000. Potatoes over \$8,000,000. Rye, \$14,000,000 and hay, sometimes that to be a soil improver, \$487,000,000 for this years crop alone. Total:—Something over One Billion, Five Hundred Million Dollars.

Now the significant thing about this loss is that it is only part of the actual fertility loss. Some men have figured that for every pound of fertility taken out of the soil by the crop, six pounds are wasted in order to secure the one. But if that estimate be altogether too high, it remains true that every pound of fertility removed must be replaced, either by the weathering of the soil or by direct return to the land in the way of fertilizers, if the crop yield is to be maintained.

Mr. Churchill reports that a good many of the fields where difficulty has been experienced in the eradication of Brome grass, ex-

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The new athletic Dress-Mode Suit. Your College colors and initials. We invite inspection and a visit to our large ready-to-wear for young women.

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amination shows the 'brome' to be nothing more nor less than quack grass, and he warns the farmers against the introduction of quack through seed, either that sold on the general market or bought of neighboring farmers. It is probable that a good deal of the quack seed sold has been mixed with the brome mechanically, but no chances should be taken in the matter. It costs something like \$20.00 an acre to rid a field of quack grass, and it is hardly necessary to say that care—extreme care—should be taken not to introduce it into fields where it is now a stranger.

Just remember Father and Mother with a present of one of those Artistic Platinotypes Made by Swen Studio, 112 Broadway.

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FOR COMPLETENESS OF EQUIPMENT AND FACILITIES FOR INSTRUCTION IS UNSURPASSED IN THE NORTHWEST

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OFFERS to the young people of this state an education which is thoroughly in line with modern thought and demands. It spends no time on dead languages or such subjects as are of little practical value. It aims to fit young men and young women for responsible positions in life. The demand of the present is for men and women who can think and investigate for themselves; who can deal with the social, agricultural and industrial problems of the day. This demand the Agricultural College is attempting to supply.

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Nothing nicer for a Christmas present than a photograph, the good ones like those made by Swem.

A rumor has been going the rounds to the effect that John Thysell decided to lead a bachelor's life no longer while on his way to Washington, and accordingly stopped off at some town in Wisconsin, was married and proceeded on his journey. This story is very romantic but is so hard to believe of a man of Mr. Thysell's conservative nature, that the Spectrum will look upon the report with some suspicion till further information is obtained.

Y. W. C. A. Play.

The W. Y. C. A. girls have received the copies of the plays, "Our Girls in Camp," and "The Chauffeur," will probably arrive before the close of the term. One of the two plays will be decided upon. Parts will be assigned and sent to the participants during the holidays, so that practice may be begun at once. The play will be staged Jan. 28, and will undoubtedly be a grand success as the Y. W. C. A. play last year was a notable feature of the season.

ATHENIANS.

The final meeting of the term was held in the Society room on last Friday evening—Dec. 16. The program was opened with a selection by the quartette which consisted of the Misses Mabelle Piers and Kathryn Grest and the Messrs Carl Yerrington and Amos Ewen, who pleasingly rendered the selection entitled, "Loves Old Sweet Song". The principal feature of the evening was the debate resolved that "Women are intellectually inferior to men". The affirmative was upheld by the Misses Rosabelle Magill, Gertrude Gibbens, Alice Tibert, Alma Erickson and Helen Stowers while the Messrs Amos Ewen, Clarence Williams, John Dinwoodie, Alfred Anderson and Leslie Herron stood for the negative.

An enthusiastic discussion was given by all the participants and the entire debate showed no lack of preparation or interest. The decision of the judges, Dr. Batt, Prof. Dynes and Mrs. McVeety was in favor of the affirmative. The program was continued with a piano duet, "The Witches Flight", by Miss Florence and Mr. Earle Hunt, a talk on the "Tuberculosis Campaign" that live question of the day by Howard Darling, and the week's happenings by William Merear. A declamation was then given by P. G. Meighten and the program ended with singing the Yellow and the Green by the society.

PHILOMATHIAN.

The Philomathian Literary society met for their regular meeting on last Friday evening at 8:00 o'clock, when the following program was rendered:

- Music—Quartette... Misses Piers and McKee and Messrs Clark and Thames.
 Speech—"Federal Prison" Prof. Arvold
 Autobiography of Eugene Field— Ralph Durkin
 Reading Margaret Keene
 Recitation Edgar Olson
 Reading Donald Dyke
 Numerous Reading Clarence Waldron
 Selection—Orchestra.... Messrs. Clark, Lough, Anderson, Wallen, Bell and Miss Lawrence.

Y. W. C. A.

The class in Mission Study convened for its usual fortnightly meeting at the Dormitory on last Wednesday evening.

An interesting discussion was held on the people of India and their manners and customs. The meeting was in charge of Miss Ruby Gibbens.

On next Wednesday evening the last meeting of the term will occur. It will be lead by Miss Inez Herron on some subject pertaining to Christmas.

GERMAN CLUB.

The German Club held its last meeting of the term Friday. A game, a modification of "Board of Trade" was played with German proverbs. The next meeting will be held January 7, 1910.

CASTALIANS ELECT.

The following officers for the ensuing term were elected at their business meeting on last Friday.
 Edna Able President
 Susie Lettner Vice President
 Eda Flem Secretary

CASTALIANS.

The following program was rendered at the Castalian Literary Society on last Friday evening.
 Piano Solo Grace Shelton
 Declamation Emma Welo
 Declamation Anna Stahlheim
 Original Story Mamie Carr
 Paper "Temperance" Eda Flem
 Music Susie Lettner

Agricultural Club.

The literary program of the Agricultural Club was dispensed with Saturday evening in order to give the members an opportunity to hear Supt. Kern's lecture.

The following officers were elected.
 John Brander Pres.
 Jack Kerr Vice Pres.
 Walter Peterson Sec.
 Clarence Walters... Sarg. at arms

HESPERIAN ELECT.

At a business meeting of the society held Friday evening the following officers were elected for the coming term:
 Ervine Storland Pres.
 Roy Dynes Vice Pres.
 Max Waldron Secy. & Treas.

A NEW ORGANIZATION.

The Town Meeting, a new organization launched by some of the leading citizens of Fargo, will hold its first public meeting in the Assembly Hall of the High School, Monday, Jan. 3d, 1910, 8 P. M. The aim of this new organization is to create public spirit and inspire healthy civic activity. It purposes to do this by the free discussion of public and civic questions. At the first meeting "Is Education Doing What It May for Social Progress?" will be discussed by Dr. H. G. Leonard and Pres. J. H. Worst. There will also be musical and oratorical features of the program of interest to the young people. A general discussion in 3 or 5 minutes speeches will follow the two main address-

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Visit CASSELMANS

Students in our Colleges and Schools and young people are invited to speak in this general discussion. Prof. Ladd who is on the program committee and Prof. Arvold will gladly give the A. C. Students the further information they may desire. The monthly meetings are open to all who are interested and certainly all ought to be interested in civic betterment.

Board Dinner.

Last Thursday the girls in cooking II served the last board dinner of this term. The waitresses were Mrs. Chapel and Miss Hurd.

Menu.

- Grape Nuts
 Roast Turkey Dressing
 Mashed Potatoes Gravy
 Fried Eggplant
 Celery Olives
 Baked Apples with Whipped Cram
 Brick Ice Cream Chocolate Cake
 Coffee Mints
 After the dinner the guests were invited to inspect the kitchen, which showed that the girls did their work systematically. The table was tastily decorated with red carnations and ferns.

Alfalfa.

Alfalfa in America, by Chas. E. Wing, the silver tongued orator of The Breeders Gazette, has just been issued. This will prove an interesting book to students from the fact that Mr. Wing has studied alfalfa from the farm producers standpoint in many parts of America and it is from this view the book is written. Those who know his ability with the camera will not be surprised at the high grade photographic illustrations which are used in this book.

Doctor Batt was heard sparking in the hall of the Dormitory last Tuesday evening.
 Dean Keen has the Cooper Hewitt Mercury Arc Lamp set up and in working order. The effect of this lamp is very peculiar as the light contains no red rays. The differential pulley has also been set up in the laboratory.

Mrs. Ash left for Seattle, last evening to spend her vacation with her daughter, Mrs. Miller.

Eleven members of the faculty were entertained at an impromptu dinner last Tuesday at 3:30. This is the last of the series that were given by the girls this term. In preparing the menus for this series the girls have shown that they can get up meals that are not only cheap but also nutritious, and are served in a way that is attractive.

The Dormitory girls saw the last of their little speckled dog at supper last Friday evening.

Mr. Critchfield will spend a few days at the Minnesota Experiment Station during the holidays on registration business.

Adolph came near having a run-away Saturday morning when his team started off while he was in the power house. By a desperate spurt he managed to catch the rear of the sleigh and by dragging through the snow on his back acted as such an effective brake that the team came to a stand still.

A meeting of the Public Library Commission, of which Dr. Batt is a member, will be held next Thursday in Fargo.

During Prof. Waldron's absence the class in horticulture have been doing grafting stunts.

Mr. Hughes has been ill for the past few days.

Take your best girl or some other fellow's to the matinee at the Fargo opera house Christmas.

Professor Waldron will deliver an address on the value of bulletins from an educational standpoint, before the Teachers' Association, which will meet at Minot during the holidays.

Mr. Seull has been doing some excellent work in beaten brass during his spare moments of late.

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Charles Robert Darwin

(Clarence Waldron.)

Charles Robert Darwin was born at Shrewsbury on Feb. 12, in the "Annus Mirabilis," 1809. He came of a family, several members of which had been more or less prominent for generations. His grandfather was Erasmus Darwin, a well known naturalist in his day, and one who also formulated a theory that all forms of life are descendants of simpler forms, but his theory was by no means as successful as that of his illustrious grandson. Darwin's father was a doctor with a large practice.

His early education was defective and not of such a nature as to be of the slightest use to him in his future career. He attended a day school at Shrewsbury for several years, where he received an education almost entirely classical. It is almost impossible to see how such a mighty scientific mind could have developed under such circumstances. He was constantly collecting various objects as a boy and in this way first formed a taste for natural history, tho whatever was scientific had to be worked out unaided.

In the year 1825 Darwin went to Edinburgh to study medicine, in which he did poorly, as he could not attend an operation, nor endure the sight of blood. While there he studied a little marine zoology with some of the professors, the only regular training he got before he departed on his voyag-

on "The Beagle."

He gave up the idea of becoming a doctor and entered Cambridge with the intention of fitting himself to become a clergyman. At Cambridge he devoted himself to shooting and sport with one set of persons, and to entomology and botany with his cousin, W. D. Fox, and Professor Henslow. He passed his last examinations at Cambridge in 1831.

Shortly afterward Darwin was given an opportunity to go round the world on "The Beagle," with Captain Fitz Roy, on a scientific expedition, a position which after some hesitation on the part of his father, he accepted. This voyage lasted five years, and it was here that Darwin's future career was determined and the foundation for his future greatness built. On this voyage Darwin collected an immense amount of material and made many original observations and discoveries. The ship visited South America, Australia, New Zealand and many of the islands of the Pacific.

Darwin reached England in 1836, and for more than two years busied himself in despoising of the material gathered while on the voyage, and in writing a journal of the voyage of "The Beagle."

In 1839 he was married. At about this time his health broke down and he found it necessary in 1842 to remove to Down, near London, where he passed the remainder of his life in seclusion.

In spite of his physical weakness, Darwin continued to win

glory, such as has come to no other scientist. He was able to work only about four hours every day, the remainder of the day being entirely useless. If he entertained friends or over-excited himself a sleepless night was the result.

From 1846 to 1854 he was engaged on a monograph of the Cripedy, a branch of the Mollusca. Darwin's work on this group is classic and a model for all scientific students. For eight years he toiled over them but, after he had finished the training given him contributed largely to his future success.

In 1837 he opened his first notebook on the origin of species, and from then til 1859 he was constantly gathering facts with which to support his great theory. In 1859, fifty years ago, this month, "the Origin" was produced. The main events of Darwin's life after this are the publication of his various books.

He was elected to many learned societies and received medals from all over the world. He died in 1882 and was buried in Westminster Abbey.

Darwin's character was one of the most lovable that has ever been revealed. He was always kind and just, honest to a fault, hating cruelty and meanness of any kind. He never entered into controversy with his enemies, no matter how severe they were towards him. He was patient to the last degree, which virtue helped him much in his work, leading him never to publish any theory unless he had studied the arguments for and against it. "The Secret of Darwin's strength lay in the perfect balance between his powers of imagination and those of accurate observation, the creative efforts of the one being ever subjected to the most relentless criticism by the employment of the other."

The great work of Darwin's life was his establishing of the doctrine of evolution. This was an old theory but Darwin was the first person to prove it to a certainty. His own contribution to the subject, included under the general term Darwinism is the method, as it appeared to him, by which the evolution occurs. This includes natural selection, and sexual selection.

"The Origin of Species", Darwin's masterpiece, is a marvel of condensation. Every sentence in the book represents pages of facts, but in the condensation none of the force of the statements is lost.

Darwin labored under unusual difficulties in his writings in that everything had to be stated with absolute precision and clearness else people would misunderstand or willfully misrepresent him.

Darwin was the one greatest example of the application of intellectual honesty to a subject. Before his time people entered the law or the ministry and altho they might be morally upright they looked at things intellectual from a limited standpoint. They were paid to do it. Darwin was strictly honest, never content with one side of a question, but looking at both sides equally. He inaugurated a new standpoint of intellectual morals and great should be the honor accorded him.

"Thorns and Orange Blossoms" a four act dramatization of Bertha M. Clay's famous novel, is underlined at the Fargo operahouse for Christmas afternoon and evening. Prices afternoon 25 and 10 cents, evening 75, 50, and 25 cents.

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NEW APPARATUS.

Many New Devices Received to Facilitate Work in Biological Laboratory.

Mr. Stevens, of the Seed Laboratory, has lately constructed a piece of apparatus which, tho quite simple in construction, allows a large part of the separation of seeds in the purity tests to be done mechanically, thus facilitating the speed of this work without interfering with the accuracy. In the case of bluegrass, for example, it is possible to take a sample and in a few minutes make several separations. The machine is of most use in separating chaff and trash and sterile seeds from grass seed samples, such as brome grass, bluegrass, redtop, etc. If there are any heavy-weight seeds in such grass they are also readily separated by this method. The apparatus consists essentially of a blower and a set of tubes and collecting vessels, a uniform blast being obtained at whatever pressure desired in the work.

ORATORS ALREADY GETTING IN TRIM

Board Offers Fifty Dollars in Prizes and Great Interest Is Aroused.

The Oratorical Contest will be looked forward to with a great deal of anticipation this year, for at the last board meeting the trustees voted that a cash prize of \$35 be given the winner and \$15 to the one winning second place. This is a very decided advance in this line, and it places the A. C. on a par with other institutions. The students are very grateful to the board for these prizes, as the enthusiasm and rivalry brought about in this manner is very desirable. The contest will be held Feb. 25, and already a number of students are working upon their orations. Among those who are definitely decided upon are, Welo, Olson, Mereer, Traynor, Nerael, Meighen, Ford, Anderson and Dyke. It is hoped that a large number will participate in the contest as it in this way shows the interest and appreciation of the students.

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PERSONAL
 Applications for registration in the Winter Short Courses show an increase of 50 per cent over last year. From present indications the enrollment during the next term will exceed 1300.

Professor Remington is now engaged in investigations of various brands of sausage, preparatory to an assault on a large number of samples of vinegar. Now that Mr. Heller is acting as assistant in the analytical work of this department it is possible to keep pace with the large number of samples which are constantly arriving.

Mr. Murphy was showing a number of friends from the University about the campus Saturday morning.

The Power Machinery course organized last Thursday, at which time officers as well as their representative to the Student's organization were elected.
 Frank Yokell President
 Walter Marshall.... Sec. & Treas.
 Guy Pyle Representative

In the last week's issue of the Spectrum it was announced that Miss Simmons was to move to the South side. This was arroneous, as Miss Simmons will move to the home of Profosor Ince in the near future.

There are plans afoot to hold a Miller's day during the session of the Grain Grower's convention, which will be held in Fargo next month. If it is found possible to do this, a special inspection of the college mill will be made to demonstrate modern methods of milling and testing.

The class in Mechanics has been investigating the stresses in the Armory roof truss during the last few days as the final problem in that subject.

Dr. Putnam is working hard on the program for the concert to be given by the band at the Grain Grower's convention in January. Most of the numbers have already been decided upon and are being vigorously rehearsed.

The "Mu"-rooms have been the scene of great activity every night for the past week while the members have engaged in copying their laboratory notes for the term. The "Mus" are not the only ones who have been burning the midnight oil, however.

Mr. Scull was busy the last of the week installing a number of new benches in the work shop. Every available foot of space will be required to accomodate the students who are expected to take up wood work during the winter term.

The last board meeting of the fall term was held Wednesday. A number of details concerning the finishing of the Veterinary building were considered. Aside from this no business of importance was transacted.

Chas Clark, '08, visited with his parents over Saturday and Sunday, while on his way to Washington from the Dickinson sub-station. Mr. Clark has been at the station the greater part of the past year and has met with great success in his work. The greater part of his time has been spent on a series of experiments with alfalfa, and he has gathered a large amount of very valuable data on its cultivation and breeding in this state.

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Critchfield has just completed the last lap of a seven day grouch.

The new course in Chemical Engineering was formally adopted at the Faculty meeting Friday.

Mr. Fitz will go to Manhattan, Kansas, the last of the month, to attend Miller's day held in connection with the State Institute at that place.

All construction about the college has been greatly hindered by the cold and stormy weather of the past few days.

A large number of students sought temporary forgetfulness of their approaching trial by going to the Climax last Wednesday evening.

Professor Arvold delivered an address under the auspices of the Extension Department, to the citizens of Cando, last Tuesday evening. Monday forenoon he delivered a lecture to the High School students. The large crowds in attendance at both lectures showed the marked appreciation of the addresses.

The plans for the debate with the S. D. A. C., are progressing rapidly, and the preliminary will probably be held Jan. 10, all those interested should see Mr. Arvold immediately.

Dr. Douglas of Hendrum, Minn. was a visitor at the Veterinary Department last Monday.

O. V. Gunning will releave G. C. Smith as laboratory assistant in the Veterinary Department during the Christmas vacation.

Ole Dolve, of last years basket ball fame, was a college visitor Thursday. He watched the boys practicing that evening and says that the A. C. is billed for another championship.

Dr. Harris is at work on an original idea in mounting an equine head for class demonstration, which he hopes to have finished so that it can be used next term.

Professor Ince has recently received samples of raw and refined Chili salpêtre which will be placed in the Chemical Museum. Specimens of other forms of nitrates and phosphates such as are used for fertilizers are expected in the near future.

The various schedules for the winter term are now posted on the bulletin of the Main building and most of the students are now registered for their next term's work. This arrangement greatly facilitates matters not only for the student but also for the Registrar.

Ben Barrett became involved with a large glass jar containing Veterinary specimens the other day with very disterous results to the jar.

Professor Richards was at Rodgers, N. D., Saturday for the purpose of selecting a young pure bred Aberdeen angus, for class room and exhibition purposes.

Mr Tibert expects to have the new veterinary building with the exception of the horse barn, ready for occupation the beginning of the winter term.

The senior preparatory students at a class meeting last Wednesday elected Irvine Storland and Mr. Walters as representatives to the student counsel. They also selected the following motto: "Still be Doing, Never Done."

The Sophomores got busy last week and elected the following representatives, Ben Barret, Miss Stafford, Amos Ewen, A. C. Anderson and Edwin Evingson.

Old Girl: "Have you seen Charley Clark?"

New girl: "Charley Clark! Oh, I want to see him. I have heard so much about him."

Work on the new annex to the chemical building is progressing slowly. The weather has been so cold as to make it almost impossible to secure bricklayers to work on it. The plate glass for the roof has been lost in transportation further delaying the work. This is thought to be due to the switchmens strike. For these reasons it will be impossible to have this addition ready until Jan. -5.

Professor George Severance, head professor of agriculture at the State College of Washington, has just resigned to accept a position as manager of a ranch of 13,000 acres in southern Alberta. His old position paid \$2,000, the new one \$3,600, including house rent and living with an additional commission.

Professor Severance is still under 35 years of age. He is a graduate of Michigan Agricultural college, where he served as instructor at \$600. About eight years ago he went to Pullman as instructor at a salary of \$800 or \$900, afterwards he was made professor at \$1,600.

The above shows some of the opportunities of an agricultural graduate.

A hog disinfector has been presented to the Farm Husbandry Department by the manufacturers. This is an ingenious and interesting device altho its usefulness is questionable.

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 Freshie: "No."
 Junior: "Why not?"
 Freshie: "They have enough trials already."

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Winnebago Man
 Lectures Here

Supt. Kern of Winnebago County, Illinois Gives a Highly Interesting and Exceptionally Well Illustrated Lecture In Armory Last Saturday Evening.

Those who did not attend Superintendent Kern's lectures last Saturday evening, missed one of the most interesting lectures of the year, and the slides shown were the best that have ever been shown here.

The title of the lecture was "Along Country Roads," and the theme was the improvement of rural school conditions.

Mr. Kern is County Superintendent of Schools in Winnebago County, Illinois and his lecture and slides dealt largely with the rural school conditions in his own county. He is a firm believer in the principle, that if we want to keep more of our boys on the farm we should not only make his home more attractive but should give him a clean well ventilated school house to get his education in, and moreover the school surroundings should be of an attractive nature. He showed slides taken of the school conditions in his own district showing some of the worst types of our country schools and how they are being improved, he also had some slides of some of the best rural school houses in the country. Of special mention is one Agricultural high school, located four miles from a railroad and depending upon the farmers for its support, it was a three story building of brick with all the modern convenience and represents the type of school of the future.

It was Mr. Kern's opinion and we think it is the opinion of the more prominent educators of today that the course of study should be modified in the country schools so as to give a more practical education to those pupils who cannot afford to continue their education in the higher schools of the country. He thinks that possibly the grammar that we teach could be abbreviated so as to give the student a better working knowledge without sacrificing anything. He also thinks that our physiology should be changed so as to include more practical hygiene and less of the number of bones that there are in the body. He says that the arithmetic that is taught to the farmer's sons and daughters

should deal a little more with the actual problems of the farm and home and less with the problems of the store and office. Our geography, too, should be reformed to include a little local geography such as soil maps and the like. Of course, it is all right to educate the children as we have been doing if they are aiming to enter one of the professions but if they have to get out in the world and earn their living before their education is completed, as we commonly think of an education, they should have work of a little more practical nature so that they will not be altogether unprepared.

While Superintendent Kern dwelt to some length on these matters the point he emphasized most was that with the expenditure of a very little effort we could make our schools very attractive both inside and out, and that a boy or girl did their best only when surrounded by an atmosphere which elevated rather than depressed.

All Ye Lovers of Turkey.

Dear Friend:

Conditions being unpropitious of enigmatical phraseology, we simply, though condignly, convoke you and your friends to hilarious participation in the celebrated athleticism of December twenty-first.

The first prize will be an eviscerated, gallinaceous bird of the genius Meleagris.

The second prize will be a lamellostratal natatorial fowl of the family Anatidae.

The third prize will be a rasorial cockeral, sprightly and vivacious.

There will also be a valuable prize for fourth place.

Gobblishly yours,

THE COMMITTEE.

P. S.:—The pistol will crack at 12:05.

The above is a copy of the circular letter being sent out to all the students and faculty.

The officials for the race will be as follows: President Worst will deliver the prizes; coach Reuber will be the starter; professors Minard, Yiefler and Bell will be the judges. The student committee in charge are Evingson, Anderson and Ewen.

The first prize, a turkey, has been donated by Eggert. The second prize, a duck, comes from Green's. The third prize will be a chicken and the fourth prize a valuable box.

All students wishing to participate should hand in their names to Professor Dynes before 10 o'clock today.

President Worst returned from Omaha Sunday where he attended The National Corn Show. While there he delivered an address on "How to Avoid Agricultural Bankruptcy," in which he gave an interesting discussion on the relation of crops to soil fertility.

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