

THE WEEKLY SPECTRUM

The Official Publication of the Students Council.

VOL. XIX. NO. 20.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY, FEBRUARY, 20 1912

5 Cents a Copy.

Agriculture Club Gives Farmer's Institute

WALDRON GIVES PAPER ON DOMESTIC SCIENCE — WENTZ TALKS ON CEREAL BREEDING — LARSON GAVE TALK ON BEEF CATTLE — CALNAN TALKS ON HEDGES AND WIND-BREAKS.

The farmer's institute Friday evening was a hummer. It is doubtful if the regular farmers institute staff could have given a more interesting program than the one given by students at this occasion. The first number was a humorous paper on Domestic Science by Max Waldron. He laid much emphasis on the importance of men learning this art at the present day, for in the near future we will have woman suffrage and men will take charge of the household duties. He advised all to buy two books at once. One was on the care of the baby, and the other—a cook book. Everything from the baby's bath to the making of lin-burger cheese is discussed in these books. Numerous questions were asked and his ready wit made the audience roar with laughter several times.

Budd Wentz gave a talk on the breeding of cereals, which enlightened the audience on the methods used for this kind of work. He told of the advantages and disadvantages of the centenger and row methods. The row method is a little more like field conditions, is cheaper and can be used with more individual plants.

The centenger system is more systematic. With this system, it is easier to keep records and to observe what each plant is doing. He did not advise farmers to do any extensive cereal breeding of this kind as it is too expensive and requires too much time. This is properly a field for the experiment stations. He advised farmers to select seeds from the field and increase the seed in small plots until there was enough to plant larger fields.

Reuben Larson talked on "Beef Cattle." He told how to get started with this kind of stock and impressed his hearers with the importance of raising high grade cattle. He spent considerable time telling of the good points of his favorite breed, the Aberdeen Angus. Many questions were asked during the talk and every one was readily answered. His wit caused much merriment. Thomas Calnan gave a talk on windbreaks and hedges. His large amount of experience in this line made him well fitted to talk on this subject. Special emphasis was laid on the variety one should grow in this state and the reasons for having them.

Allan Andrews read an interesting article on Consolidated Schools. William Guy acquitted himself very well as superintendent of the institute.

The feature of the institute was the interest which was taken in the program, the large number of pointed questions which were asked and the readiness with which they were answered.

Marshall's Star, the large white short horn sire that has attracted so much attention at the A. C. barns for the past 5 or 6 years, has been sold to C. H. Harold of Wheatland, N. D. He was a sire of good breeding and has done much towards building up the short horn herd at this school.

CHALLENGE.

The Senior Basketball Team challenges any class or department team to a game for the intracollegiate championship. First team men are barred.

WANTED—Young man for store, to work Saturday and afternoons. The Hub, 616 Front St., Moorhead.

Oratorical Contest Comes Next Friday Evening

SIX STUDENT ORATORS WILL COMPETE—FIFTY DOLLARS IN PRIZE MONEY.

On Friday comes the most important public speaking event of the year. That is the local oratorical contest. This will also probably be the best oratorical contest ever held here as there are six of our advanced students in it, and all are in to win. The object of this contest is to select our representative for the state contest. To stimulate interest in oratory here and to bring out the best orators we have, the board of trustees are giving \$50 in prize money for this contest, \$25 for the one winning first place and \$15 for the one winning second place. The contest is held under the auspices of the public speaking board and Edgar Olson, the president of the board, will preside.

A small admittance of ten cents will be charged to help pay the expenses of our representatives to the state contest. This is less than half of the usual price of admittance so should keep no one away. Every one of our students should be there. The program will be as follows:

- Music Selected
- 1.—Am I My Brother's Keeper? Ella Heidner
 - 2.—The Need of a Rural Awakening Clarence Walter
 - 3.—The Crucible of America Bertha Camp
 - 4.—International Peace. Rosabelle Magill
 - 5.—Progress of Democracy. Dean Mendenhall
 - 6.—The Real Peril. Arthur Ogaard
- Music Selected

AGRICULTURAL MEN WILL HOLD ANNUAL BANQUET

Last year the four year Agricultural men inaugurated the system of holding an annual banquet for Agricultural men only. The one last year was a splendid success. They had a good feed and a fine program. It was decided to make it an annual affair.

This year it will be held on March 1st at Pirie's Hall. Ambrose Boucher, Thomas Calnan and Irvin Stordland who are on the committee to look after it, are busy making arrangements and making out the program. There will be quite a number of toasts. Professors Waldron, Shepperd and Van Es will probably represent the faculty. One of the Seniors will act as toastmaster. There will be one speaker from the alumni, one from each of the college classes and one from the senior farm husbandry class.

Tickets have been printed and are now on sale. All agricultural students should attend and get acquainted with agricultural men outside of your own class. Tickets should be secured soon as possible so that they can tell how many plates to serve.

PRESIDENT WORST SPEAKS IN ILLINOIS.

Tomorrow Pres. Worst will have the honor of being one of the principal speakers at a large farmers convention at Centralia, Ill. It will be a large meeting of farmers of the state of Illinois, similar to our tri-state Grain and Stock Growers Convention. His address will be on "Some Present Day Problems for the Farmer."

Six orators will spout in the Armory, Friday evening. Hear them.

Dr. Putnam's cheek is becoming worse instead of improving. He may find it necessary to take a short leave of absence next month to consult specialists in the east.

All College Banquet To Be Event Of The Year

WILL BE HELD IN CERES HALL THURSDAY EVENING MARCH 7.

We are going to have an all college event. It is going to be an All College Banquet on Thursday, the seventh of March, and will be something on the same order as the big feed three years ago. It will be served in the Ceres Hall dining room instead of in the Armory as it was on this former occasion. This will insure a bounteous repast and will allow room for four hundred persons at one time. That will be the maximum number of tickets sold. These tickets will probably go in a hurry, as 550 were sold when the Big Feed was held in the armory, and then a large number were turned away.

The price will be only fifty cents, which will barely cover its actual cost.

There will be a meeting of all students who are interested tomorrow at 5:30 in the old chapel. The final plans will be made at this time and arrangements made for a program.

DEMISE OF COL. GRASSE.

News was received Saturday morning telling of the death of Herchmer W. Grasse of Moorhead, the father of Miss Edythe Grasse. Mr. Grasse had been ill for some time and shortly before the holidays he underwent a serious operation at the Mayo hospital at Rochester, since which time his chances of recovery have been slight. Later his condition improved very much and it was thought for some time that he was on the road to recovery. The middle of last week, his condition became much worse. Wednesday, Miss Grasse was called to his bedside at Rochester, and remained there until he was carried by death, Friday night.

Mr. Grasse was always a friend of the A. C. and often attended our college events, and it is with sorrow that we hear of his demise. The bereaved family has the sympathy of all our students and faculty.

MANY FARM HUSBANDRY MEN GRADUATE IN MARCH.

The Senior Farm Husbandry men are now all busy working on their graduation exercises, which are to be held Thursday, March 21st. The exercises will begin with a banquet which will be held at 5:30 in the boys dormitory or in the Copper Kettle Inn. To this banquet are invited Farm Husbandry alumni, and parents and relatives of the members of the class. Prof. Shepperd and Mr. Chamberlain will be guests of honor. Mark Brindle will act as toastmaster. Toasts will be given by Robert Peterson, L. Dawson, Fred Lowe, and Steine Myrdahl. The commencement program will begin at 8:30 o'clock, in the armory. The commencement address will be given by A. E. Chamberlain of St. Paul. The class is one of the largest which has ever been graduated from this course.

AT THE GRAND.

Next Sunday evening there will be a celebration of the Dickens centenary, consisting of readings from his works. Miss Claire Luger will read from "The Cricket on the Hearth," and Miss Lenore Poppler from "The Tale of Two Cities." There will also be special music.

We beat Fargo College 16 to 15. Last Saturday night Fargo College beat the U. 21 to 14. The U. team was in poor condition, having been on a long trip, which partly accounts for their defeat. Even taking this into account our chances should be good for winning Thursday evening.

Crack Squad Dance And Exhibition Drill

THE SECOND ANNUAL FUNCTION OF THE ORGANIZATION—A LARGE CROWD IS EXPECTED.

On Wednesday evening, the Crack Squad will entertain what is expected to be a record breaking crowd at their second annual dance and exhibition drill. Washington's birthday offers a convenient time to recuperate after this affair. The squad will appear in white and should make good showing in their drill, which is a new one, and has required much training to perfect. Twelve men will be in line and will drill at about 10 o'clock. In order to give the usual amount of dancing, the music will start promptly at 8:00 o'clock.

OUR NEW ELECTRIC POWER PLANT.

It will well repay any one interested in things electrical to pay a visit to the power house of the school while the new plant is being installed. The plant is to be used in supplying power to the whole school in place of down-town current. The plant consists of an alternating current generator, a steam engine to drive the generator, and a small direct current generator which is used as an auxiliary to the big generator.

The big generator is a Hawthorne Alternating Current Generator of 75 KW. capacity. It is a three phase, 60 cycle machine with an amperage of 18.8 and a voltage of 2300 over. It has a speed of 276 R. P. M. and is connected direct to the steam engine. It comes from the Western Electric Co. and is of the fixed field, revolving armature type. There are no brushes and the current is taken direct from the field. The armature is charged from the small direct current dynamo and the high tension current is taken off the field. The excitor is a compound wound generator with a speed of 1800 R. P. M., voltage 125, amperage 56 and capacity 7 KW.

The engine is from the Ball Engine Works of Erie, Pennsylvania. It is a simple, singlecylinder engine of 110 H. P. designed to work under 100 lbs. steam pressure and at a speed of 270 R. P. M. The cylinder is 13 by 15.

The whole plant is remarkably compact and occupies very little space. Installation is proceeding rapidly and the plant is expected to be in action early in March.

BASKETBALL TEAM IS BADLY CRIPPLED.

Our basketball prospects look a little blue just now. Balsinger sprained his ankle again last week. Gorman is suffering with an ulcerated jaw which is keeping him out of the game. Darrow intends to play no more games as pressing work makes it impossible for him to be out for practice. Simpson is still ineligible and does not seem to be doing his best to remove the condition. He is a very valuable man, so it is hoped that he can play again with the team. The loss of Darrow will be keenly felt. It is hoped that the others will soon recover so that they can again play their positions.

Miss Morrison left for her home in Pembina county Monday after a two weeks' visit with friends at the A. C.

The country is now on the verge of ruin. If you don't believe it, attend the oratorical, Friday evening.

Campus work is a very popular course during this fine weather.

Remember the Crack Squad dance tomorrow evening at 8 p. m. sharp.

Pharmacy Team Defeats Harwood In Basketball

SMART STARS IN ROUGH GAME—FINAL SCORE 38-13 IN THE FAVOR OF THE PILL-MIXERS.

The Pharmacy team left Fargo on the afternoon train of the Great Northern last Friday. They got off at Harwood with the intention of trying to win at least one game this season. They were successful, so they are now happy. The floor was small which hampered them to quite an extent and helped to keep the score as even as it was. The game was rough, but as far as we know, no one died from the effects. Smart was the star, using his speed and basket shooting ability to a good advantage, as can be seen from the fact that he made thirteen baskets. The final score was 38 to 13 in our favor. Jack Hall refereed the game. Our line up was: Beardsley, f; Smart, c; Semling, f; Hanson, f; Shunk, g; Smith, g.

ANNOUNCE YOUR CANDIDACY IN THE NEXT SPECTRUM

All persons who have any aspirations to become the editor or business manager of the Spectrum should hand us their announcements before Monday of next week. Announcements must appear in the next issue of the Spectrum to comply with the constitution of the Students Council.

PROF. MINARD TALKS ON STUDY OF ENGLISH LITERATURE IN HIGH SCHOOLS

Gave Many Interesting Facts About the Study of English Before the Special Class in Education Monday Afternoon.

The place English now holds in secondary schools is comparatively recent. Formerly classics of Greece and Rome were studied. English classics were subordinate until the last 20 or 30 years. The standard for the study of English in most states is three years. The relation of composition work and literature is about two-thirds of the time to literature, and one-third to composition.

The study of literature is necessary in preparing for life. It broadens and widens the outlook on life, and helps us to understand and sympathize with inner feelings of our companions. In acquainting us with life both good and bad, and especially the ideal, it helps to civilize and is fundamentally moral.

It also develops means of securing pleasure. The spontaneous interest in literature should be encouraged instead of making it compulsory.

NEW BULLETIN BOARD FOR COLLEGE ORGANIZATIONS

The proceeds of the literary festival are being put to a very useful purpose. A new bulletin board for all the societies in the institutions is being made with a separate compartment for eighteen societies. This will be placed where the old frames are now hanging so these old eyesores will soon be a thing of the past. Each society will have a space of their own in the new bulletin board and locks are provided so that notices cannot be altered except by the ones whose business it is to do so. It is made of hard wood which is varnished, and is neatly made so will add to the attractiveness of the main hall in the main building. It will also relieve the congestion of notices on the large bulletin board.

Ten Cents—one dime, will admit you to the oratorical, Friday evening.

Eastgate Talks On Birds Of North Dakota

BIRD POPULATION OF STATE STILL GREAT—NEED OF PROTECTION EMPHASIZED.

Last Friday evening was delivered the most interesting lecture heard here in a long time, when Mr. Alfred Eastgate of Stump Lake delivered an illustrated address on "The Birds of North Dakota." There was a fair sized audience, and the students who went are to be congratulated on having had the opportunity to hear the speaker. Mr. Eastgate had an unusually interesting set of slides, many of them from photographs of North Dakota birds. Mr. Eastgate started out by telling of his interest in the birds of the state for the last 18 years and of how he had been constantly hampered in his desire to protect the birds by petty politics. He then threw on the screen pictures of various birds and their nests, such as owls, crows, cormorants and hulls, giving a short description of each bird with particular reference to its occurrence in this state. Some of the pictures were quite amusing, as for instance, one of 4 young turkey vultures with an egg in a nest, which he called "a bob-tailed flush, with a chance to fill." It was the description of the ducks and geese with their nests and eggs that was most interesting, for it is almost unbelievable how many birds can exist on the few islands of Stump Lake. Mr. Eastgate stated that birds had wonderfully increased the last three years on account of the abolition of spring shooting but now that it has been restored he fears that they will decrease again. The birds have come to know the Stump Lake reservation as a refuge, and flock to it each year in ever increasing numbers, many which, hitherto only nested farther north having taken to staying there during the summer. Most of Mr. Eastgate's studies have been around the Turtle Mountains and Devils Lake regions, which are still rich in all forms of bird life. Mr. Eastgate told about how to study birds, and also of the ravages which have been committed by plume-hunters throughout the country that women might gratify their vanity. Only once has the plume hunter invaded North Dakota, and he probably never will again. Mr. Eastgate wound up his talk by describing the meadow lark as his favorite bird, the true prairie songster, a bird which he had never killed and he hoped he never would.

NEW BULLETIN ISSUED BY FOOD DEPARTMENT

The January number of the Special Bulletin of the Food Department has just been issued and contains much of interest. The lead-in garticle is devoted to the Farmers General Service Company which has caused considerable discussion and several court cases in the western part of the state. The company's acts have been reviewed and the opinion been reached that the company's standing was not good and that farmers had best leave their products alone. Prof. Remington in the same bulletin gives the results of a study of the protein contents of various vinegars, and Prof. Congdon of the results of coating and polishing of rice. Suxolite and Vilane are two frauds which are also exposed.

Make haste. Make that date for the oratorical, Friday evening.

The armory resounds from early morn till noon every day, as the orators are making heroic attempts at outdoing Demosthenes and Bryan.

The Students and Faculty are cordially invited to attend The

SECOND ANNUAL CRACK SQUAD DANCE

[Putnam's Orchestra]

and EXHIBITION DRILL, at 8 o'clock, TOMORROW EVE.

Tickets \$1:00

THE WEEKLY SPECTRUM

Published every Tuesday of the school year by the students of the North Dakota Agricultural College, at the Ulsaker Printing Company, 519 Second Avenue, North, Fargo, N. Dak.

Edwin M. Ervingson, '12.....Business Manager

The Weekly Spectrum appreciates contributions of local interest from anyone. These should be addressed to the editor. Cases of non-delivery and other business matters should be referred to the business manager.

Entered at the postoffice at the Agricultural College, N. Dak., as second class mail matter.

Subscription rate 1 per year in advance. Single copies 5 cents.

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 Harold Bachman, '16.....Musical
 Thomas Calnan, '13.....Assignments
 Grace Shelton, '14.....Ceres Hall
 Rueben Larson, '14.....Locals, Station Work
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 Royal Drummond, '15.....Engineering

GRADUATION EMBLEM.

The present senior class is making an effort to have a standard graduation emblem adopted for permanent use at this institution. This is a move in the right direction. The advantages of having a set emblem for all classes with only the class numerals to distinguish them, are too evident to require mention. The question really is, what would be a suitable emblem, which would be acceptable to the majority of this, and all succeeding classes. This cannot be answered without a concerted action by all classes. The Senior Class has no more right to dictate than any other class. Therefore would it not be expedient for a joint meeting of all classes to be called? In such a meeting the discussions would lead to some definite result, one way or another. Let us have a standard, but also let it be such that none of the coming classes will have reason to alter it.

So far, this year, our rooting at the games has been far from good. It has been very sadly lacking in volume and unity. The principle reason has been lack of leadership and also the lack of practice, or perhaps enthusiasm. The game at Fargo College should have stirred up our enthusiasm. The teams were very evenly matched. Never before was the effect of rooting so evident as at the last game with them. At a certain time, the A. C. rooters began a concerted action to bring points for the team about the middle of the second half. Cheer after cheer was given. It was not long before the effects began to show on the score board. It seemed to have a hypnotic influence over our players. They went after the ball harder than before and it seemed as if their opponents became exhausted. This should be a lesson for the future. We must get together before the next Fargo College game which is coming March 2nd. There will be a rally some time before the game. Everybody should be there—college, high school and short course students.

Mr. Editor:-

In regards to the article headed Shorthorns which appeared in the last issue of the Spectrum, I believe that it would not come amiss if a few more words were added.

From a personal observation and also from complaints which have reached the writer of this article, it would appear as if some injustice has been done. During the lecture last Monday on Lincoln by Mr. Smith, several people, some of whom were "Shorthorns" were unable to hear the speaker on account of the antics of a few regular course students. If therefore there is cause to complain it would seem as if the complaint should have been headed "Shorthorns and Long Course Students," and that the blame should have been equally divided.

If the disturbances occur through the poor judgment of Regular students, what can be expected of students who came here to learn the ways of a college. If they did as they were supposed to do, follow the lead of men that should know better, they are certainly up against it when some of the students registered for four years show such a bad example.

C. F. Schroeder.

The great majority of short and long horns are here for a purpose and show this by their actions. The article in question criticized only a few of the short course students and should not be regarded as an injustice to anyone. It was published in an attempt to rectify a condition which is deplorable and we believe that having been corrected, these short course men, will have manhood enough to behave in the future. As for long course students, there are a few "missing links" who have by hook or crook, been allowed to pose as real college men, and who we give up as lost and not capable of assimilating any advice that might be offered. We agree with Mr. Schroeder in all he says and think that his addition to the criticism is timely.

Radical Changes In The General Science Course

FEWER CREDITS REQUIRED FOR GRADUATION. MANY SUBJECTS WILL BE MORE CONCENTRATED. MORE CHANCES FOR SPECIALIZATION. ENTRANCE REQUIREMENTS RAISED.

The committee of ten appointed by the faculty some time ago to revise the general science course has recommended some radical changes in this course. Their recommendations were unanimously accepted at the faculty meeting Friday afternoon. The greatest change is in the number of credits required for graduation which has been lowered from 350 week hours to 213 week hours. This is with the view of making our graduation requirements conform with those of other colleges. Heretofore, our required number of credits has been much higher than in other American Colleges. The fewer required subjects makes it possible for students to specialize much earlier in the course than formerly. A general science student will be able to specialize in engineering, agriculture, home economics or any other line without taking these complete courses.

With the lowering of the required credits for graduation, the entrance requirements have been raised. Hereafter, fifteen year credits will be required instead of fourteen as formerly. That means practically four years of high school work for the average student. Below we give the exact report of the committee:-

Recommendations of Committee of Ten Adopted at last Faculty Meeting.

- Requirements for Admission.**
1. An applicant must offer 3 units of English.
 2. He must offer one other principal group of three units or more and a secondary group of two units or more. These additional groups to be selected as follows:
 - (a) Modern Languages.
 - (b) Ancient Language (units to be offered in one language).
 - (c) Ancient History, Mediaeval History, United States History, Civics and Economics.
 - (d) Mathematics.
 - (e) Physics, Chemistry, Botany, Zoology, General Biology, Physiology, Physiography, General Astronomy.

Not less than one unit may be offered in either physics or chemistry. Otherwise any combination of subjects within each group will be per-

mitted. An applicant must offer seven units from groups a to e but not less than one-half unit may be offered in any subject.

3. In addition to the ten units provided for under sections 1 and 2, the applicant must make five other units. These may be made up from anything usually credited toward high school graduation, but foreign languages, mathematics, physics and chemistry if not offered as under section 2, must consist of at least one unit.

4. A total of fifteen units must be presented.

Requirements for Graduation.

1. That there be required for graduation, 225 term-hours (54 term credits) including two credit-hours per week for six terms in military drill and tactics for men and in physical training and hygiene for women unless this drill and tactics or physical training and hygiene have been completed in part or in entirety previous to admission when due allowance will be made for the amount of such work thus completed.

2. That of these 225 credit-hours, 110 must be removed before the student be admitted to the Junior Class.

3. That no student be allowed to register for more than 20 hours of work except upon the approval of the Committee on Standing or candidate for Graduation.

4. That no subject be allowed more than five credit-hours per week, allowing two hours of laboratory as one credit-hour and that in general, all subjects as now published in the catalog be reduced 20 per cent. in the number of exercises per week and that credit be given only for actual class periods.

5. That each student be required to complete in the college before being admitted to the Junior Class, three courses (12 credit-hours) in English, three courses (15 credit-hours) in chemistry, two courses (10 credit-hours) in biology and one course in mathematics.

6. That in addition to the above, each student, before admission to the Junior Class shall have completed the equivalent of at least two and either in the high school or college, one-half units in each of groups I, II, III and IV of section 7. A college course of 4 or 5 hours shall count as one-half a high school year-unit. No college credit shall be given for subjects that are presented for admission.

7. Before graduation, the student must complete in the college, a principal and a secondary sequence of coherent and progressive course. The principal sequence must consist of nine such courses (approximately 36 credit hours) and the secondary sequence must contain six such courses (approximately 24 credit-hours) in another subject.

8. As a guide to these sequences, the following groups have been arranged:

- I. History, Social Science.
- II. Modern Language and Literature (other than Eng.)
- III. Philosophy, Mathematics.
- IV. Science; as Biology, Chemistry, Entomology, Geology, Mineralogy, Physiology, Physics.
- V. English Language and Literature.
- VI. Education and The Industrial Arts: Agriculture, Horticulture, Home Economics, Mechanic Arts.

9. That by the end of May of the Freshman Year, the student shall file with the Registrar, a statement that shall show the principal sequence and the secondary sequence of the work that he wishes to pursue. At this time, the Registrar shall assign him to that member of the faculty most directly interested in the students' lines of electives, who shall act as an advisor to that student, to the end that the sequences may be properly elaborated.

10. That these modifications are of effect after September 1st, 1912, and shall be operative upon all students of the General Science Course in proportion to the number of credits at that time due for graduation.

ALWAYS A LAWYER.

A prominent citizen of a certain town had just left this world for another. His character was just a "wee bit" questionable. At the services, just after the minister had started his eulogy on the dead, a late comer slipped into a rear seat by a lawyer friend of his and asked if they had progressed far with the services.

"Not very far," was the reply, "he just opened for the defense."

The A. and M. T. high school team defeated the Lisbon High 20 to 17 last Friday evening.

The North Dakota Agricultural College

For Completeness of Equipment and Faculties for Instruction is unsurpassed in the Northwest

The College Department offers Eleven full Courses viz:

- | | | |
|------------------------|--------------------------|----------------------|
| Agriculture | Civil Engineering | Biologic Science |
| Mechanical Engineering | Home Economics | General Science |
| Education | Pharmaceutical Chemistry | Chemical Engineering |
| Veterinary Science | Chemical Science | |

The courses are available to those who have completed the equivalent of a good high school training.

For those who have not had such a training

The Agricultural and Manual Training High School offers complete secondary courses in:

- | | | |
|-----------------|---------------------------------|-------------------------|
| Agriculture | Engineering and Manual Training | Commerce |
| General Science | Domestic Science | Rural Teachers Training |

These courses all fit fully for college entrance

Special Courses:

- | | | | |
|----------|----------|-----------------|----------------|
| Pharmacy | Commerce | Homemakers | Farm Husbandry |
| | | Power Machinery | |

A Complete Commercial Training is Offered to All Students

THIS COLLEGE

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.

The Laboratories and Shops are Thoroughly Equipped

The Instructors are Specialists in their respective lines

Exceptional Advantages are offered in Biology, Chemistry, Domestic Science, Literature, Mathematics, Engineering and Veterinary Science

Graduates from approved High Schools are admitted to the Freshman classes of all courses.

Credit is allowed in the Agricultural and Mutual Training High Schools for all work done in the country schools.

Tuition Free. Board and Room \$3.75 to \$5.00 per week.

For Catalogs and Circulars address the Registrar

Agricultural College, North Dakota

Farm Husbandry, Power Machinery and Homemakers' Courses Begin Oct. 16th

BOLLEY GIVES DEMONSTRATION

On February 15 Prof. Bolley delivered an address before the farmers of Traverse county, Minnesota, at Wheaton, under the auspices of the course in agriculture being conducted at the Wheaton high school. The topic of his address at Wheaton was, "The Importance of Maintaining Proper Soil Sanitation in Field Cropping, and How to Do It." He also put on a seed treatment demonstration in full force at Wheaton.

It is the intention during the present season to demonstrate the possibility of treating flax by means of these actual demonstrations. Many farmers are inclined to be skeptical that flax seed can be wet without preventing the possibility of using it in a seed drill.

In the demonstrations a bushel of seed is placed on the floor and immediately wet up before the audience. Samples of the seed are passed around showing how wet it can be made. At the close of the address the farmers are again requested to examine the seed in the pile, and it is then found ready for sowing.

The wedding of J. Allen Clarke to Miss Amber Aymar will take place next Wednesday, February 21st, at the bride's home in Fargo. Mr. Clarke has been at Washington, D. C., since the middle of December and will return immediately after the wedding to his duties at the local experiment station.—Dickinson paper.

The Spectrum extends its best wishes for a happy journey on the matrimonial sea.

Special Rates to Students

The exchange of photographs of class members and fellow students should not be overlooked because of the many reminiscences and associations they will recall in years to come. You will then value them more than you perhaps do now.

We are rapidly establishing a reputation for doing the best work at the most reasonable prices ever offered in Fargo. Call and see us.

DORGE & JANSRUD, Photographers

112 Broadway, over Palm Theatre

Formerly Swem Studio

Some time ago we made mention of the bill just introduced into congress to provide federal funds in aiding agricultural extension from the Agricultural colleges of the country. The passage of the bill would be a splendid thing for the country as a whole and would mean much to the North Dakota Agricultural College. Our students should push it. Do it here. When you get home tell the neighbors about it, and do not forget to write our representatives in congress. A petition is being circulated among the students and all students should sign it.

The political pots are beginning to boil and a lively election will undoubtedly be the result. Announcements of candidates will appear next week.

The Junior Prom at the U. of Wisconsin cost \$1,800 this year.



DIXON LAUNDRY

307 Broadway Phone 666

BUY YOUR Pennants, Posters, and Novelties at THE STUDENT'S BOOKSTORE
 Engineering Building, Room 16

SPRING SUITS

MADE BY
Hart, Schaffner & Marx

NEW MODELS for the SPRING of 1912. English Sacks, Varsity, Shape-maker. New Ideas in Overcoats.
PRICES—\$18.00 and up.

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PERSONALS

Clayton Worst, now farming in the Yellowstone Valley in Montana, has been spending a few days visiting at home. Clayton was a student here several years ago and was also an instructor in farm crops during two winters.

The fourth annual report of the Superintendent of Demonstration farms is now ready for distribution. This is a report of almost 200 pages and contains much valuable information to agricultural students and farmers.

Pres. Worst gave two addresses at Winnipeg Wednesday. At noon he gave a talk before the commercial club. In the evening he talked before an assemblage of farmers. These are farmers who spend two weeks at a special short course.

Prof. Arvold gives an address today in Rugby at the dedication of the new Pierce County court house.

Mr. Denhardt won the hearts of many of the fair co-eds in the chemistry lab, the day after Valentine day, by the generous distribution of his valentine gifts.

Prof. Zeifle will not give the lecture on "What To Do in Case of Accidents" on March 5th. On account of the large number of short course pharmacy students who are here at present and because the board exams are coming soon, the pressing work will give him no time to prepare a lecture for this date. As this lecture was intended primarily for pharmacy students, it is doubtful if it will be given until next year.

Arthur Bridge who is now farming near Page was a visitor last week. Earl Hunt was one of the speakers before the seminar meeting of the chemical staff Monday afternoon. He spoke on the potash industry. Prof. White talked on the value of special kinds of proteids in animal nutrition.

Dr. Van Es gave a very interesting lecture before the pharmacy students Wednesday afternoon.

The class in sociology are giving some interesting reports on live topics this term. All members of the class have some special subject to work up and much valuable information has been gathered in the themes which they present. Some of them may be published in Fargo papers in the near future.

During the warm spell last week a few of the Short Course students left for their homes in the country.

During the meeting of the County Commissioners held in Fargo last week, many of the commissioners were seen looking over our campus and buildings.

Miss Emma Sanderson was hostess at a pretty valentine party in the honor of her friends, at her home on Thursday evening.

Allan Clark has returned from Washington, D. C., where he has been working with the Bureau of Plant Industry since the holidays.

Elsie Stark and Louis Denhard gave a public demonstration in the art of scientific embracing in the chemical laboratory Thursday afternoon.

The class in Home Management has finished the discussion of how to manage everything in the home from accounts to the household pests, and has now taken up the finishing of different woods. Some of the members of the class were heard expressing their regret that the most important subject of home management had been left out, namely the management of the man.

The Crack Squad union at Barrett's is raising havoc with the crack squad by rebelling against Drill-master Ogaard's despotic rule.

Mr. and Mrs. Kerr were visiting their sons, Jack and George, at the boys' dormitory last week.

Mr. Keppen of Pembina, president of the County Fair association, interviewed some of our professors on business last week.

Mr. Burke Critchfield spent Saturday and Sunday with relations at Hunter.

Manual labor appears to agree with Prof. Richards. He quite often remarks that he is hungry enough to eat tacks.

Prof. Sheppard and Martin attended the dairy meeting held at Mandan last Thursday and Friday. They report an unusually interesting meeting with a good attendance.

Prof. Doneghue addressed the Agricultural Staff at their meeting in Francis Hall last Saturday forenoon. His subject dealt with the Hopkins-Cameron controversy in soils.

Mr. A. P. Hertsgaard of Kindred, Farm Husbandry graduate, '06, brought in a horse to be treated by our Veterinarians at clinics Saturday morning.

Mr. W. L. Hauser, national campaign manager for Senator La Follette, and a friend of Prof. Richards, called on the professor one day last week. Mr. Hauser is an enthusiastic live stock breeder, and has raised several prize winning Clydesdale horses.

Prof. Dolve attended the Implement Dealers convention at Grand Forks one day last week.

Miss Corinne McMillian of Minneapolis is visiting with Prof. and Mrs. Richards this week. Miss McMillian is a former classmate of Mrs. Richards at the U. of Minnesota.

While at the Corn and Clover Growers' Convention in Grand Forks, Prof. Bolley delivered an address on field crop diseases and how to prevent them, including studies on crop rotation. He also put on a seed treatment demonstrated for the prevention of wilt in flax, with which the farmers were highly pleased.

Prof. Slocum of the Civil Engineering department of the College was absent the latter part of last week at Grand Forks attending the convention of the North Dakota Society of Engineers in that city.

The food commissioners office has recently been making up a list of all beverages registered during the last year.

Prof. Ladd will leave the latter part of last week for Chicago, where he will speak this week before the American Medical Association. He will also meet and confer with two or three applicants for the position left vacant by the resignation of Prof. Ware.

Miss Morrison of Bathgate was a guest of Miss Bina Foster at Ceres Hall last week.

It is rumored that cockroaches have become one of the staples of late in the Ceres Hall diet.

L. R. Waldron of Dickinson was a guest of C. B. Waldron over Sunday.

Ray Boyd is in the hospital suffering with an attack of appendicitis. He was operated on the last of the week.

Mrs. Bachman arrived last week to visit her sons, Harold and Myron. Mr. Bachman arrived Sunday morning for a short visit.

The Pharmacy students have now organized an orchestra of their own and are rehearsing in their suite of rooms above the Economy drug store.

Ray Drummond's squad won in the competitive drill Friday. As the result, they will be excused from the next week of drill.

Miss Grasse is unable to meet her classes in music at present on account of the death of her father. She will probably be back to her classes early next week or the last part of this week.

Roy Dynes, Bill Stapleton and Irvin Storland, the three debaters who won places on the South Dakota team are working hard on the debate every day with a determination to win. The debate will be held March 22 or 23. By special agreement of the two schools, no debating team will be allowed over \$75 expenses for return trips between here and Brookings. This is with the view of making the income from debates more nearly approaching the expenditures.

The remaining lectures for the winter term in the course offered by the Department of Education are as follows. These lectures are given at 3:30 Mondays in the Physics lecture room: Feb. 26—The Study of Physiology, Prof. Bell. March 4—The Study of Botany, Prof. Bergman. March 11—The Study of Chemistry, Prof. Ladd.

The girls did not have any class in the gym Friday afternoon as Miss Haggart was giving an address at the time.

Professor H. L. Bolley will have an extensive illustrated article on diseases of flax and wheat and other cereals in the March issue of the Northwestern Miller. This article will be carefully illustrated and should be of much interest to those who are interested in the cause of deterioration in cereal grains.

She (in a friendly tone)—"By the way, are you going to take supper anywhere tomorrow evening?"
He (eagerly)—"Why, no, not that I know of."

She (serenely)—"My won't you be hungry the next morning?"—Ex.

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Respectfully,

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FEBRUARY

Februlias, feast of Romans,
To purify the soul,
For 'live and dead
The feast is spread
To cleanse and make them whole.

The woodchuck doth appear
On Candlemas,—if shine?
Then Valentine
Must grace his shrine,
Thru lent revilers pine.

Aquarius and the Fish
Both share your time off shore,
Where mermaids, gay,
Cut thru the spray,
Their feasting eyes adore.

Three cleansers of the race
Commemorate the month,
In land of blue
All bow to you
True leaders of the front.

Great Numa brot thee forth
To grace the calendar,
Feb-ru-a-ry!
Cleanse, be merry!
We hail thy provender!
—E. D. S., '13.

If a feller have a dollar,
(Meaning you)
And he doesn't know what use to
Put it to,
He is pretty apt to laud
At the Lyric or the Grand,
And his dollar will have taken wings
And flew.

I will offer you some good advice
By gar,
You can make that dollar go just
Twice as far,
Make a date at Ceres Hall
For a little friendly call
Take along a box of sweetness, there
You are.
—E. D. C.

The worst of autos, and the best of men, are want to spark, just now and then.—Oregon Emerald.

Hand Bags

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She may have one now, but it is getting old, and she is tired of it, and is longing for a change, hoping that Santa Claus will bring her one. Play Santa Claus and go to Monson's Trunk Store where you can't help but find what you want. All prices from 25 cents to \$35.00.

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ATHENIANS.

The Athenian Literary Society listened to a very interesting program Friday evening. The meeting was called at 7:30 in order to give the members a chance to attend the lecture on Birds. The first number was a vocal solo by Mr. Sonquist, Miss Alm playing the accompaniment. He responded to the encore by singing a beautiful Scotch ballad. Mr. Colley gave a reading which was very touching, but ended in a humorous manner. Miss Clara Larsen recited Aunt Jimema's Courting in her usual pleasing way. Chester Holkesvig recited two of Kipling's poems, Gungidin and If. He preceeded these with some observations on Kipling's writings as a whole, and closed his remarks by telling the girls to follow Kipling's advice and they would become noble—men. Mr. Leet accompanied by Miss Leet, rendered a violin solo which was well received. Levi Thomas read a very interesting discussion on Socialism. The male quartet accompanied by Miss Mabel Cox, sang two numbers. The meeting was then adjourned and the members proceeded to the armory.

CASTALIAN.

The Castalian Literary Society had an interesting meeting Friday evening. The program was opened by the society song by the whole organization. Hannah Jenson rendered a piano solo. Helen Walter gave an instructive original paper Bessie Knarborg gave a vocal solo showing a voice of great sweetness. Current events were given by Rizpah Ladd. Ada Lachner gave a solo which was well received. The most interesting part of the program was an exhibition by Miss Haggart with Indian clubs. Some splendid music was given by the Misses Clara Kjos and Winnefred Stearns on mandolins and Mrs. Wood at the piano. After the program, dancing was enjoyed until a late hour.

ENGINEERS ELECTRICAL SHOW.

The date for the Engineers Electrical Show has finally been decided on and that long promised event will be pulled off on the night of Feb. 24. The show will be held in the Engineering building and space has been so divided that each exhibit will be assured of ample room.

The exhibits are many and varied and are of wide interest to the general public. One of the largest is the isolated lighting plant. This consists of a 3 K. W. dynamo run by a 4 H. P. gasoline engine. This is to be used in lighting some of the other exhibits and the hall decorations. There will be all kinds of electrical heating, lighting and cooking apparatus. Telegraph lines, private telephone lines, wireless, and wireless telephone are all to be shown in operation. Staetic displays and free X-ray demonstrations together with Giessler tube displays will form part of the novelty exhibits. The only perpetual motion machine in existence will be shown in the windows down town to advertise the show.

There will be at least four downtown exhibits including an electroplating outfit. There will be automobile electric plants, coils and transformers, magnetos, small dynamos and motors galore, a big mercury arc rectifier, and an Edison Storage Battery showing how it is put together.

An engineer will be in charge of each exhibit and all who attend are assured of a good time. The admission will be fifteen cents and as the show is to be open only one night a large crowd is expected.

At the Oregon A. C. a special course in camp cooking is given "for men only."

THE SON OF SWAT.

They were seated in the parlor And the light was burning dim. He a diamond hero; She a fan quite fair and trim. And he knew not as he opened Up the game by burning love, That her father was the umpire On the stairway just above.

"I like your form," he led off first, "With me you've made a hit You've got the speed, you've got the curve And you are looking fit. Now, if with you my turtle dove, I make a hit likewise, Won't you improve your single state And make a sacrifice?"

"I never play too far off base," He whispered in her ear "My salary whip has got the stuff, To put it over dear— And when you give the signal for a steal I'll no longer roam, And when I slide into the plate, Please call me safe at home."

The maiden to this softly replied, "Show me your batting average In Mr. Bradstreet's guide. It takes a lot of speed these days With cunning and intrigue To win a battle now and then Within the grocer's league."

Here he started warming up at once, And with a happy sigh He whipped a fast one round her neck The other was waist high. But here the umpire butted in, Said she, "Oh, father, please don't call him out He's showing me how they work the squeeze."

The old man gave an irate snort And said, "I'll help the fun By showing him another play That's called the hit and run." A soul inspiring clout. The son of swat slid down the steps, The umpire yelled, "You're out." —The Tiger.

Several of the Ceres Hall girls have been under the care of Miss Haggart during the past week. Among them were the Misses Radcliffe, Emma Mikkelsen, Porter and Sprague.

Barbara Heidner had a very jolly cutter ride on Sunday of last week. The only trouble was that the driver got one of the runners mixed up with the street car track. The cutter tipped over spilling its occupants over a considerable area. Fortunately, no one was injured. As it was, nothing was hurt except the cutter. It will probably remain in the hospital for some time.

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Besides these, he will give humorous character stories in verse and other things calculated to make a man's heart tickle his ribs. Mr. Cooke has the faculty not only of writing, but of making his characters live before the audience. Edmund Vance Cooke will speak in the Armory, February 29th.

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Company A will not drill this week. Those assigned to Co. B will however, report on the days individually appointed by the commandant.

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