

THE WEEKLY SPECTRUM

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Number 3.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY October 12, 1909.

PRICE 5 CENTS.

Short Courses

To Begin Soon

Farm Husbandry And Power Machinery Men To Arrive First Of Next Week.

Three Year Course In Power Machinery Offered For First Time This Year.

On next Monday, October 18th, the short courses, which occupy such a prominent place in the work of the college, begins. These courses cover three years of six months each and are especially for those who cannot afford the time required in the regular four year work. By the middle of October the rush of farm work is over and it is at this time that the six month courses begin. They end with the winter term in the third week of March before spring work opens. Thus the young man from the farm is enabled to pursue his studies without interference with his duties at home. Moreover by being allowed six months each year to earn money, it is quite an easy matter to earn ones way through such a course.

At present the college offers two of these, the Farm Husbandry and the Power Machinery Courses. Of these the Farm Husbandry is the oldest having been established with the institution some eighteen years ago. At first it occupied two years of nine months a year and thus keeping the student away from home during the busy seasons in the fall and spring. To overcome this objection the courses was finally changed to three years of six months each. This system has now been in use several years and has proved highly satisfactory.

As to subjects offered the Farm Husbandry Course embodies all the essential features of the four year Agricultural Course, but is confined to the more practical and elementary of the agricultural subjects. Naturally little time can be found for such subjects as English and Mathematics, which while valuable, are of less importance to the practical farmer than such things as stock judging, farm mechanics etc.

The studies offered include Breeds of Live Stock, Chemistry, Wood and Forge Shop, Elementary Veterinary Science, Stock Judging, Soils, Horticulture, Traction Engineering, Dairying and many others. Throughout the course only such subjects as have a direct and practical bearing on agricultural problems are dealt with. Graduates from this course have in a condensed form all that is most important in the four year work. This must not be taken to mean that the three year course is at all equivalent to the four year one. Such a thing is impossible in so short time and no one who can possibly take up graduate work should be content with a short course. The Farm Husbandry course however covers a field which the regular one can-

not reach as it accomodates the boy who has not the time for more detailed study yet desires a more intelligent understanding of the forces of nature with which he works and a practical knowledge of applied agriculture.

The Power Machinery Course like its mate was derived from a course of two years of nine months each, formerly known as the two year Steam Engineering Course, but it was found that altogether too many of the students who would have liked to take this course were unable to spare so much time. Mr. Gunness tells us that a number of the students who take the winter short courses in engineering of three months, try to get advanced work, but owing to the fact that they cannot be here in the Spring and Fall, were not able to get it. However this new course will change all this and it is expected that it will attract a large number of students.

This course is under direct supervision of Mr. Gunness, the Professor of Steam and Experimental Engineering, so that any student who expects to take this course can be assured of the very best of

instruction. This course is the equivalent of a high school course as far as mental training is concerned but has the advantage over the high school course in that the work is all of a practical nature while that given in a high school is often anything but practical.

It is expected that anybody who completes this course can take charge of moderate sized power and electric lighting plants, in fact except for the more technical work and the higher mathematics, this course covers much the same ground as the regular course in Mech. Engineering only that the graduate of the four year college course has a thorough basis of farther study along these lines either by himself or in some of the higher technical schools. The course embodies a thorough training in Traction and Steam Engineering going farther than the old course in that it takes up in addition to the elementary traction engines a course in power plant engineering which takes up the study of boilers, high power engines and power plant accessories such as feed water heaters.

purifiers, cooling towers, condensors, pumps, steam traps, drains, lubricators, pipes, pipe fittings etc.

In addition to this steam engineering there is a course in Gas Engineering which not only takes up the usual gasoline type but producer gas, producer gas engines, gas plants and gas engine efficiency.

There is also quite a thorough course in electricity which includes principles of electricity, dynamos, motors, electrical plants and methods of distribution of electric current. Aside from these class room subjects the afternoons are all spent in laboratory practice, wood, forge, and machine shop. These of course are very essential to the thorough understanding of the class room work.

To sum up this course gives training in just what a large portion of young men of this state have been looking for and gives it at a time when they can all take it.

Every one expecting to enter either one of these courses should make every effort to be here the

very first day as the man who is here on time is the man who gets the most out of his course.

FIRST DANCE OF THE SEASON GIVEN BY MU'S, OCT. 16., AT A. C. ARMOORY

The first dance of the season will be given by the Alpha Mu Fraternity on Saturday evening, Oct. 16. As yet no details can be given but the Mu's have shown such ability in managing their social funtions in the past that it is safe to predict a good time for all who attend. It costs money for these affairs and when the Mu's go to the trouble and expense of getting up an entertainment of this kind they certainly deserve our patronage. All students are especially invited.

A. C. Stands

High In List

Faculty Committee Draws Up Comparison Of Leading Colleges.

N. D. A. C. Stands Second In Rank As to Graduation Requirements.

There seems to be a widespread belief that the courses offered by the Agricultural Colleges and particularly this College are of low rank as compared with those of other colleges and universities. This idea originated in the days of Agricultural Colleges when the entrance requirements were little above those of High Schools. Such an opinion however is entirely out of date at the present time. There has been steady increase in the entrance and graduation requirements until today, the Agricultural Colleges of the northern states offer courses quite up to the standard and the student who gets a degree from any of them may well feel proud of his achievement.

In our own state a mistaken idea has long prevailed, that the North Dakota Agricultural College was not only below College rank, but did not compare favorable with institutions in its own class. Realising how general is this impression and how great is the injustice and the injury being done the institution through the prevalence of these false ideas the faculty recently appointed a committee, that should investigate the comparative entrance and graduation requirements of the leading Agricultural Colleges of the country. The report of this committee is given verbatim below. To understand this list a brief explanation of the method of complying with this list will be necessary. The requirements are reckoned in year credits each unit representing a subject of five hours per week carried through the entire year. Graduation requirements are on the basis of one unit for each hour



A. C. Foot-Ball Squad.

A. C. Wins From V. C. In Season's First Game

Normals Go Down To Defeat By Score Of 12 To 3, On Home Field.

Wet Weather Prevents Fast Play But Good Training Is Shown By Both Teams.

Saturday afternoon at 4:15 at Valley City the local foot ball team lined up against the Valley City aggregation. Owing to the recent rains the ground was altogether too soft for a speedy contest.

The College lost the toss up and Valley City kicked off to us from the north, the wind blowing at a pretty good rate from the same direction. material assisting the Valley City "bunch" in the beginning. Foss received the ball cleanly and made a 15 yard gain before he was downed. The two teams then lined up in the A. C. territory on the 30 yard line. Then followed a series of line bucks wherein the college made their downs every time until they reached Valley City's 35 yard line. Here we were penalized on a forward pass and were forced to

punt, we recovered the ball however, and after a further series of line bucks succeeded in making the first touch down, and also in kicking the goal. After we lined up the second time Valley City seuered the ball on the kick off and after a series of scrimmages succeeded in kicking a field goal from the twenty five yard line. This ended the scoring for the first half.

In the second half we lined up under the north goal, Valley City kicked off against the wind. Foss again received the ball but was tackedled before making much of a gain. From this time on we advanced the ball thru a series of line bucks well into Valley City's territory, here the ball was lost on a fumble. However, Valley City was held for downs and were forced to punt. A. C. signaled for a fair catch and was disregarded which penalized Valley City 15 yards. Following this we advaced the ball to about 15 yards from Valley City's goal. Here on a forward pass we made our second touch down, also kicking the goal.

After this there was no more scoring, but the A. C. had a decided advantage and were just about to make a place kick when the whistle sounded and the half

was over.

The touch downs were made by Ueland and Miller while Bert Haskins kicked goals.

Besides the regular players there were about ten enthusiastic representatives of A. C. who stood on the side lines and urged our men on to victory. Owing to the inclemency of the weather a very large crowd was not turned out, however, those who were there succeeded in making it so interesting at times that the referee had to call out time to get the crowd back off the field and quiet them down so that the teams could hear the signals. However the treatment accorded us by the officials and the management was A. No. 1.

The following is the line up:

A. C.	Normals
Hendricks	Ewen
W. Haskins	L. E. Doyle
Biersdorf	L. T. G. Anderson
B. Haskins	Kenney
McDonald	C. O. Anderson
Page	R. G. Smith
McKinstry	R. E. Warner & Wagle
Foss	R. T. Butterwick
Miller	Q. Humble
Ueland	L. H. B. Tongley
Bridge	F. B. B. Butterwick
Officials	R. H. B. Shanks
Halves	Touchdowns, A. C. two. Field Goals—
	Normals, one.

(Continued on page 8).

College Puts On Unique Exhibit

College Seal Made in Native Grains Appears at Fairs During Past Summer.

A part of the college exhibit that attracted wide attention at the fairs during the past summer was a large seal of the college made in colors and formed entirely from grains raised in the state.

The seal which is now stored in the Blue Print room of the engineering building is 6 feet, 8 inches square, and complete in every detail. The border is made of Durum, or as it is more commonly called, Macaroni wheat. The milling of the seal itself is constructed of half round pieces of wood glued to the back and covered with crimson colored seed. The back ground between the two milled borders is done in German millet; while the raised letters of the words, "North Dakota Agricultural College—1890" are covered with timothy seed.

The central portion represents the rising sun in the back ground while on the green fore ground stands the plow and anvil, symbolical of agricultural and mechanic arts. Above are the words, "Practice with Science."

The green foreground is the only place where naturally colored seeds are not used. To get the proper shade of green the barley which covers this portion was stained with green. The block on which the anvil rests and the beam and handles of the plow are covered with German millet, while the anvil and plowshare are of flax. The sun is of corn and the lettering here as on the borders is done in timothy seed.

As a whole the seal represents a great amount of painstaking work and makes a most striking exhibit. The credit for the most excellent workmanship of the piece is due to Miss Jaredine Thompson, teacher of free hand drawing, who layed out the design and Mr. Harrison Bunt who executed most of the work.

Kilpatrick Record Broken.

The record held by Charles Kilpatrick of the University of Wisconsin for the world's fastest half mile was broken recently by an Italian at Montreal. He beat Kilpatrick's record by three-fifths of a second, making the half mile in 1:52 4-5. Kilpatrick's record has stood since 1895.

A board of four men will take charge of the work of the civil engineering department at the Boston "Tech," an innovation which will be watched carefully by advocates of the one-man system.

Under the rule of the new commandant, cadets of Iowa drill at 7 a. m.

The Carlisle Indians are having to make a strenuous effort to bring forth even an average football team.

Choir To Present Sacred Cantata

"Bethany" By Dr. Rhys-Herbert, Will Be Given During the Winter.

Doctor Putnam already has the College Choir organized and the large number who reported at the first rehearsals augurs well for the success of the organization during the coming winter.

A new feature will be added to the choral work this year by the putting on of at least one light opera. It has already been decided to work up the sacred cantata, "Bethany" by Dr. Rhys-Herbert of St. Paul. This is a new musical production, being first presented to the public from the manuscript in St. Paul and Minneapolis last winter. Its popularity however was assured from the start and very flattering press notices were given it.

It is in every respect fitted for the plans Dr. Putnam has in mind, being easy and tuneful and in a popular vein. In many respects it resembles the Holy City, by Grant, which was presented at the college three years ago. The production will be given during the winter term with choir and orchestra.

At present the chief weakness of the choir seems to be the lack of male voices and any volunteers in this line will be most heartily welcomed.

Y. M. C. A. Holds First Round Up

Members Have General Good Time in Francis Hall Saturday Evening.

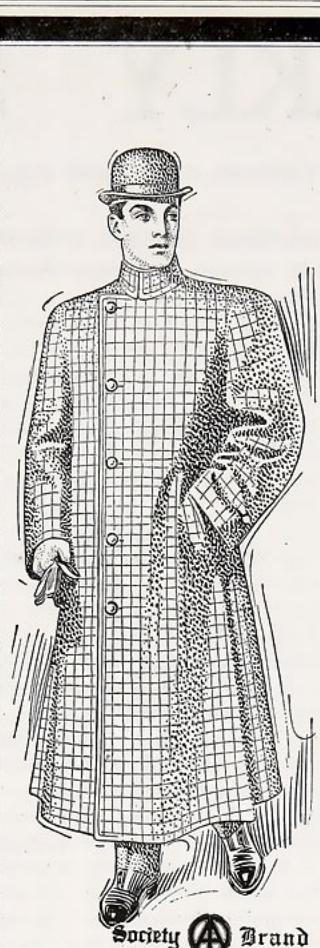
The Y. M. C. A. indulged in a membership feed or "Round-up" in Francis hall Saturday evening, and in spite of the very disagreeable weather a good number was present.

Festivities began at 8 o'clock and for some time various games and contests were participated in. A number of prizes were offered and a most enjoyable time was spent. At 9:30 a new feature of interest was introduced in the form of hot coffee, doughnuts, apples, etc. After these had been disposed of, more games were indulged in, and a late hour arrived before the gathering broke up...

Among the guests were Mr. Parsons of the city Y. M. C. A. and Mr. Miler, state secretary of the Y. M. C. A.

While the attendance undoubtedly would have been much larger, had it not been for the rain, still the first "Round-up" was an undoubted success, and makes a good start for the work of the association during the coming year.

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and the bill is nothing but college currency," frantically exclaimed the assistant in the College book store after making a sale.

"Let it go," replied Professor Hochstetler, "look at the fifty-cent piece, and if that is good we have still made twenty cents."

It Actually Happened in Rhetoric.
Miss H.—"Mr. —, will you please give me an example of an exclamatory expression?"

Mr. S.—(freshman), "Oh! you kid!"

An electrician in the Union Pacific shops at Omaha has equipped a locomotive with a wireless device which railroad men assert will enable train dispatchers and station agents to signal engineers between stations.

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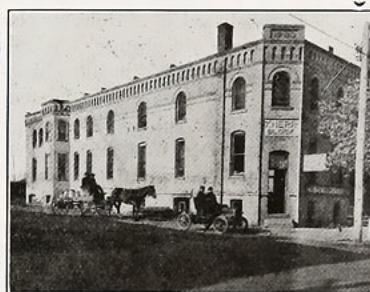
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Chemical Department Receives Most Valuable Addition to Equipment.

The Chemical department has recently received a large consignment of new apparatus and supplies amounting to the sum of two thousand dollars. In addition to the general supplies, a polariscope has been ordered from Germany, also a high pressure digestion apparatus to stand the pressure of fifty atmospheres together with a large number of new microscopes. One of the most valuable pieces that has been ordered is a new centrifuge for the food laboratory. Also there will be ordered new and complicated apparatus for digestion work, a new electric oven for the baking station laboratory, and a new micro-photometer is expected soon, to be used with a fine photographic outfit which is now on its way.

To the mill has also been added an elevator equipment for the storing and handling of grain for experimental work.

HOVERSTAD RETURNS FROM WESTERN TRIP.

Reports Great Interest in Institute Work of Coming Year.

Supt. Hoverstad of the Farmers' Institute, who has recently returned from a western trip, during which he attended the National Convention of Institute Workers, anticipates a most successful season during the coming winter.

Already over 100 applications for meetings have been received, and it may be necessary to begin the institutes a month earlier than usual this year. As an indication of the favor with which these meetings are looked upon, it is stated that many meetings will be held in entirely new territories.

Mr. Hoverstad has been very fortunate in securing as a speaker during the coming winter, Hon. O. C. Gregg of Minnesota. Mr. Gregg is an experienced worker along this line, having been for twenty-three years Superintendent of the Minnesota institutes.

The contract has been let for the printing of 15,000 copies of Institute Annual No. 9 for this year 1909.

Dated 1420.

"But really, Professor, you don't believe I deserve an absolute zero for that paper," meekly protested the gridiron hero.

"No, I do not, but that is the lowest I can give you."

From 1885 to 1895, 12 per cent of the graduates of the New York University chose teaching as a profession. From 1895 to 1905 23 per cent made such a choice.—Journal of Education.

There are 56,000 nuns in the United States. They have over 600 colleges and academies for women, 700 institutions of charity and 300 parochial schools; 1,000,000 orphans, patients, strays, waifs and aged people are cared for, 70,000 girls in their colleges and academies and 800,000 children in their parochial schools.

Cornell gets an endowment providing an annual prize of \$100 to the student who writes the best poem.

Pres. Schurman of Cornell says that German schools lead all other countries in research work.

Great Activity In Public Speaking

Many Events of This Nature Are Planned for Coming Year.

The coming year promises to be an unusually busy one in the department of public speaking and students who are in any way interested in this kind of work will find ample opportunity to participate in at least one of the coming events.

The first on the list is the Inter-society debate, the date for which is set for Dec. 10. This debate is held annually between the Athenian and Philomathion Literary societies and is looked forward to with great interest. Preparations are already afoot and the teams will be selected in the near future.

As is usual the larger share of this year's literary events occur during the winter term. Foremost among these is the oratorical contest which decides who shall represent the college in the Inter-collegiate contest later on. As yet little is known of this year's contestants, but it is safe to say that a good number will enter.

The usual Declamatory contest will be held in the latter part of the winter but will differ from those of the past in being divided into two sections; one for colleges and the other for Prep. students. The college contest will be for the usual gold and silver medals offered by the institution while the Prep. contest will decide the representative of the college in the Intercollegiate meet to be held in the spring.

Dramatics will also receive their full share of attention and plans are already being made for a play to be staged by the Dramatic club "The Professor's Predicament," which was put on two years ago was a marked success and proved conclusively what can be done in this line. Circumstances rendered a play impossible last year, but it is a custom which should be kept up, and unless something unexpected intervenes some good dramatic production will be staged towards the end of the winter term.

To put a fitting close to the winter activities some great all-college function will probably be held in the early part of March. Two years ago it was the "Circus," last year the "College Banquet," on March 4. What form college exuberance will take this year is hard to say but at present the plan of holding a political convention seems to be regarded with considerable favor. In any case some event of sufficient scope to allow of every student participating will be held as a climax for the winter festivities.

In the spring when outdoor sports again become possible these events will naturally become fewer, but the Stockwell prize debate and commencement will be held at that time. As a whole it appears that there will be no lack of activity along public speaking lines and a large number of students will have an opportunity to enter into this sort of work.

The fuel supply of the world has recently been greatly enlarged by the discovery of a method whereby alcohol can be distilled from sawdust at a cost of 14 cents per gallon.

Sixty-nine per cent of those whose names appear in "Who's Who in America," are college graduates. Since less than one per cent of the total population

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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

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Now that convocation exercises are held in the Armory there is room for all and everybody is expected to be there. These exercises are equivalent to a recitation and should not be "skipped" without as good an excuse. The general meetings are almost the only chance the students have of congregating, and for this reason alone are well worth your time. Those students who regularly absent themselves from chapel, miss an excellent opportunity of becoming acquainted with the student body, and at the same time place themselves in the class of those who lack the proper kind of college spirit.

In justice to the students, however, it must be admitted that the absentees are not all from their ranks. When the faculty is represented by a mere handful of lonely professors in the large section reserved for them, it is not strange if the undergraduate's conscience becomes quite flexible. So let us have a well filled chapel every Monday of the coming year, and to bring this about the faculty and upper classmen should set a good example by filling the front sections reserved for them.

With the opening of the football season comes the old question of rooting. This has always been a weak point with the A. C. students at which rallies, speeches, ridicule and editorials have been aimed in vain. The simple injunction, "Everybody get out and yell," is excellent theory, but past experience has proved conclusively that it shows up very poorly in practice.

There is certainly no lack of proper enthusiasm in a crowd of A. C. students, but they seem woefully deficient when it comes to expressing the fact. Either everyone roots independently and in opposition to everyone else or some individual starts a yell and getting no support, stops, frightened at his own audacity, The

primary cause of poor yelling seems in every case to be lack of organization. Various attempts have been made to remedy this state of affairs, but without success. There is still one method which has not been tried, however, and that is the formation of a Rooters' club. This plan has been tried at other institutions with marked success, and certainly deserves our consideration.

A rooters' club is just what the name implies. A body of students organized for the purpose of rooting at games. They choose one or more leaders and learn the yells; then when a game is on they keep together and follow the leaders in their yelling. Twenty-five students can make more noise by going about it in some such a systematic manner than four times their number rooting without leaders or previous practice.

If such a club were formed here arrangements could be made to get megaphones at greatly reduced rates as they could be ordered in considerable numbers. A comparatively small number of rooters thus organized could make themselves heard and raise the standard of our rooting.

At any rate the plan is worthy of consideration and if action is to be taken, it should be at once, so as to be prepared for the coming games.

LIBRARY ASSOCIATION HOLDS FOURTH MEETING

Session held at Valley City Proves Most Valuable and Interesting

The fourth annual meeting of the North Dakota Library Association was held at Valley City, October 7-8, when the following program was given:

Thursday, October 7th, High School, 8 p. m., Library Work in Rural Communities (Illustrated) Dr. Max Batt, Agricultural College.

9-11 p. m. Reception.

Friday, October 8th, Normal School, 10 a. m. Work of the State Library Commission, Julia A. Robinson, Bismarck.

Margins in Library Service. — Cora M. Rawlins, Valley City.

Reference Work and its Co-ordination in North Dakota, — Charles H. Compton, Grand Forks.

Psychology of Reading. G. B. Randalls, Vale City.

Public Library, 2 p. m. Round Table Discussion.

3 p. m. Business Meeting.

The following officers were elected for the coming year: Dr. Batt of the N. D. A. C., President; Miss Helen Harwood of the Minot public library, Vice-President;

Mr. H. C. Compton, U. N. D., Librarian, Secretary.

These three officers with two others, Mr. O. G. Libby of the State University,

and Miss Alice Paddock of the Jamestown public library, constitute the executive committee of the association.

Plans are on foot to hold joint meeting of the N. D. and Minn. Associations in Fargo and Moorhead next year. If, however, these plans fail, the meeting of the N. D. Association will be held at Jamestown.

The progress of the library work has been very noticeable in

three N. D. towns, namely: Williston, Devils Lake and Dickinson.

In Williston a memorial library is

soon to be erected and a trained

librarian will be engaged. The

same holds true of Dickinson and

Devils Lake where Carnegie libra-

ries are planned. The meetings

were very well attended, a larger

number of delegates being present

than ever before.

The work of the state library com-

mission and of the legislative

reference bureau was especially

emphasized and the necessity of

bringing it to the attention of the

public was pointed out. Particu-

larly, debating societies are in-

vited to write to the librarian of

the legislative reference bureau

at Bismarck, for literature on any

live topic that they wish to dis-

cuss. Such information will be

supplied promptly and gratis.

The work of the library com-

mission for the coming year will

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be centered on traveling libraries of which 83 are now organized and may be had on application by any community, club or library by addressing the secretary of the public library commission at Bismarck, for literature on any live topic that they wish to discuss. Such information will be supplied promptly and gratis.

The Business Manager made a trip to Valley City in quest of financial backing. That reminds us, have you subscribed?

Keen competition run riot between Keeney and Otto, at the present writing neither competitor seems to hold a decided advantage. However the opinion of the lady in question could not be learned.

Owing to a business engagement, Prof. Keene was unable to meet his 10 o'clock class Tuesday.

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Mu's Hold Meeting.

The Mu Fraternity held an important meeting last Thursday afternoon, after which a "feed" was indulged in. Following the feed a social hour was enjoyed.

It is reported by "Paigie" and others that Stambough is really engaged. However The Spectrum does not consider this source of authority as entirely reliable, so will defer an official announcement until the details can be ascertained in full.

Biersdorf had sufficiently recovered from the effects of his maimed shoulder to be able to line up with the team at Valley City in Saturday's game.

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JOINT MEETING

HELD SUNDAY.

Y. M. and Y. W. C. A. Unite In Student Rally. Messrs Parsons And Miller Speak.

The Christian associations of the college united in the chapel on last Sunday afternoon at 3:30 for the purpose of carrying on their regular student rally for the fall term.

After the usual opening exercises Miss Mabelle Piers rendered a beautiful vocal solo "Let not your Heart be troubled" in a most pleasing manner. Mr. Miller the State Secretary for the Y. M. C. A. chose for his Scripture reading that beautiful thirteenth Chapter of first Corinthians on Charity and his address was upon the same subject. He stated that Charity or love is especially needed in the "The College life".

In regard to development of character. He encouraged each student to become identified with one or the other of the Christian Associations, where One may be developed equally well on all sides, spiritually, physically and intellectually for such is the aim and purpose of these organizations. There is much to be gained from the social and religious meetings but a kind word now and then goes farther than anything else, and is the means of winning souls for Him. Mr. Miller closed by saying that in this work as well as in any other, one would have difficulties to face, but nevertheless in such cases of discouragement take this for our Motto: "Press on towards the light that we already see".

Mr. Parsons the International Field Secretary for the west was then introduced. He began by relating some of his personal experiences, with suggestions which might be a help to every listener. He said that we should be thankful for the privileges that we enjoy particularly that of college life and that every opportunity should be taken advantage of.

Out of gratitude for God and His goodness, out of gratitude for the Bible and its teachings we should endeavor to stand for the right and thereby enroll with the Young Mens' or Young Womans' Christian Associations. And may our greatest purpose in life be to follow Jesus Christ and be loyal to Him. The session closed with a vocal solo by Messrs. Ewen and Olson: "Nearer My God To Thee".

SECOND CORN SHOW TO BE HELD NEXT JANUARY

Great Success of Last Year's Show Encourages Promoters to Continue Custom.

The full success of the first corn show held in connection with the Tri-State Grain Growers' convention last January and the friendly sentiment it produced have prompted our faculty to make arrangements for the Second Annual Corn Show which will be held at the time of the Grain Growers' convention in this city next January. As no organization has been completed, Supt. Randlett and Prof. Churchill have taken it upon themselves to further the project, and make arrangements, hoping to soon organize a North Dakota Corn Breeders' Association, which would establish the corn show as an annual event.

The corn crop in this state is constantly increasing in importance and it is unnecessary to explain to how great an extent an exhibition of this nature will widen

**Y. M. C. A.
Lecture Course**

LESSON 1909-'10.

Schubert-Quartette Concert Co., 6 people	Oct. 19
Frank Dixon, Lecture	Nov. 16
Cambrian Walsh Chorus, 12 male voices	Nov. 23
Dr. G. O. Shields, Lecture.....	Dec. 6
Dr. Andrew Gillier, Lecture.....	Dec. 14
Elias Day and Wife, Humorists	Jan. 31
L. B. Wickersham, Lecture.....	March 24

Lesson Tickets \$2.50 Students Course Tickets \$1.00.

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en the use of the well bred varieties suitable to North Dakota conditions. The show bids fair to be of unlimited success, for not only has the corn acreage been large the past season, but we have had the best and heaviest corn crop in the history of the state.

In order that exhibitors from all parts of the state have an equal chance, the state has been divided into north and south sections, the corn from one section not competing against the product of the other, but each territory competing for separate prizes. A new feature has been added to the show this year in the form of a grain, seed and potato department, which will add special interest to the affair.

Already \$315, besides several special prizes, have been raised, an amount more than twice as large as that offered last year. Business men are showing considerable interest in the matter, the Fargo Commercial club liberally

supporting the venture, as last year, and the real estate firms over the state donating freely.

Extension bulletin No. 1 was published last spring giving full information and useful suggestions in regard to the show, and may be had on request. The department will gladly answer all inquiries and furnish information to persons concerned. All communications should be sent to Supt. G. W. Randlett or Prof. O. O. Churchill at the Agricultural college.

Seut:—"A bohemian is a fellow who borrows a dollar and then invites you to dine with him".

Mut:—"Wrong; a bohemian is a chap who invites himself to lunch and then borrows a dollar."

Prof. H. in Analytics: "Is there any question this morning?"

Mr. T.: "Yes, what's the lesson for today?"

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Most Respectfully

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Fargo,

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Dean Sheppard

Issues New Bulletin

Gives Results of Hog Feeding Experiments.

During the summer Bulletin No. 81 has come out of the press. This bulletin is compiled by Profs. Sheppard and Richards. It is entitled "Fattening Hogs" and deals with relative value of barley, low grade wheat and corn for fattening purposes, also the effects of cross breeding on gains made and on carcasses.

Conclusions.

1. That it required 18 per cent more barley by weight than corn to produce the same gain in feeding pigs when both grains were fed in the proportion of four parts of grain to one of shorts by weight.

2. That it is profitable to feed barley to hogs if pork is selling at an average price.

3. That the carcasses of the pigs fed barley and shorts showed a greater distribution of lean and firmer flesh than the carcasses of pigs fed corn and shorts.

4. That pigs fed on corn and shorts will dress a higher per cent than pigs fed on barley and shorts.

5. That cross bred Yorkshire-Berkshires made more gain than the other cross breeds or pure breeds used in this trial.

Summary of the Trial.

1. We can conclude from the results of this trial that ground rejected wheat is capable of producing good gains when fed to swine in connection with shorts.

2. In comparison with corn it requires 8.9 per cent more rejected wheat than corn to produce the same gains.

3. The quality of pork produced is even better than that produced by corn.

If pork is selling for a reasonable price, a fairly good price may be expected from feeding the rejected wheat to swine.

J. H. Sheppard,
W. B. Richards.

Language is used to conceal thought—Tallyrand.

FORMER STUDENT VISITS COLLEGE.

Chas. Van Horn a Once Prominent Student, Sees Much Change in Campus.

The college was visited last week by Chas. Van Horn, a former student of this institution, who is at present in the U. S. navy. Mr. Van Horn will be remembered by many of the older students, having been very prominent in college circles. For some time he was principal musician in the band, where he played solo clarinet. He also took a prominent part in athletics, particularly in basketball and baseball.

Three years ago he left college and secured a position in the hospital corps of the navy which position he still retains. Last year he went with the fleet on its journey around the world. On this trip he gained considerable prominence as a musician and as a member of the champion baseball team of the fleet.

At the time of his visit to the college he was on a two weeks' leave of absence, which he spent at his home in Fargo. The many changes about the college struck him most favorably and he declared that it looked familiar "Only in spots." Mr. Van Horn left the first of last week for the New York navy yards, Bremerton, Wash., to resume his duties.

Tibert Gets New Desk.

Prof. G. F. Tibert owing to his rapidly increasing business found it necessary to make requisition for a new desk. When it arrived Saturday it was so large that it took Dick and his helpers half an hour to get it through the doors. Nevertheless Mr. Tibert was greatly pleased with it and remarked that it would probably be sufficient for his needs for at least six months. By that time, however, he would probably need a typewriter (female gender) so that one desk would then be insufficient.

The first woman to be graduated from a Jesuit university was given the degree of bachelor of sciences at Marquette University there recently. The woman thus honored was Miss Grace Woltcott of Michigan.

PURE FOOD BANQUET

The following factious menu was given out at a banquet tendered the Pure Food men at the Denver Convention.

—MENU—

Cream Chicken.
Preserved with Benzoate of Soda
Duchess Crust
Misbranded Onika Baroness.
Pickles
Colored with Copperas
Salted Peanuts
With Fusil Oil.
Radishes
Artificially Colored.
Olives Cotton Seed Type
Chicken a la Cold Tongue
Imitation Corn Fritters
Fillet Mignon a la The Jungle
A la Bordelaise
Geographical Misbrand
String Beans
Misbranded No Strings Present
Potato Croquette
With Ptomaines
Combination Salad
(Not a Blend)
Canteloupe
Rocky Ford (Style)
Assorted Cake
Passed By The
Remsen Board
Demi Tasse
False and Misleading Statement
Ditch Water
With Typhoid Germs

DOLIVE MAKING MODEL ROAD.

Mr. Dolve has been offered a quantity of Standard Asphalt Road Oil by the Standard Oil Co through their agent Mr. Cotton of Fargo. This oil will be used in the continuation of the road experiments which have been carried on here. This oil contains 60 per cent asphaltum as a base and is supposed to be satisfactory for heavy driving. Anyone interested in good roads should inspect the road where it is being used as well as a sample of the oil which Mr. Dolve will gladly furnish.

A. C. CADET
BAND IMPROVING.

The Band is rapidly improving and new members are being added at every rehearsal. Among those who have joined recently are C. W. Hammond, who will take the bassoon, M. B. Henderson, above, Clarence Hanson, clarinet, Edward Lyman, cornet, J. S. Peterman, bass drum, and Harold Sunde, snare drum. The trombone section is entirely new, being made up at present of Messers Meshine, Hennis and Cowan. Mr. Meshine is also a violinist of repute.

JUNIORS START

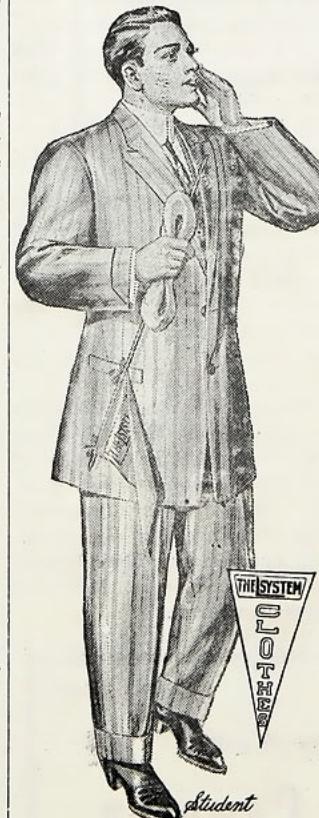
STEAM LAB.

The Junior class in steam engineering have started their annual laboratory work and are now making tests of coal both moisture determinations and calorimeter tests to determine the heating value of the different kinds of coal. The department of steam engineering has purchased a new calorimeter of the "bomb" type and when this arrives the boys expect to get better results from the fuel tests. As soon as cold weather sets in they will make their annual tests of the power plant.

Columbia has a football game of 300 on a side; freshmen vs. sophomores. That makes us think of our freshman days.

In German I.

Dr. Batt — (Addressing class)
"Feminine nouns are here and our troubles begin."



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and

Tinware.

Mr. Stanley Pierce of Creston, Ill., one of the most successful and widely known breeders of Aberdeen Angus cattle in this country, visited the Animal Husbandry department last week. Mr. Pierce as a practical stock breeder, appreciates very much the work done along live stock lines by the agricultural colleges, and it is interesting to note that he showed the first Grand Champion at the first International Live Stock show ever held.

Edwal Moore, jr., a former member of '11 has accepted a position as court stenographer in the chambers of Supreme Court Judge John Carmody at Bismarck, and will not be back to school this year. The position is a good one and right in Mr. Moore's line of work, as he is studying to be a lawyer. In Mr. Moore the class of '11 loses one of its members especially prominent in oratory and debate.

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PERSONAL

The "Turkey Race" will be held on Dec. 15 this year.

Ruth Ware was seen about college last week.

Donald Brinton returned Friday to resume his studies.

Arthur Ueland, Farm Husbandry '08, registered last Tuesday for work in the College course. Mr. Ueland makes a most welcome addition to the football team, where he now occupies a position in the back field.

Dr. Abbott was busy all Saturday morning showing some friends of his from the "U" about the college.

Cecilia Eylofson, a member of the Senior class, was one of last week's late arrivals.

One old girl to another, "Say, doesn't it look natural to see Harriet in the parlor?"

Dr. Zeifle addressed the domestic science girls on the relation of chemistry and housekeeping, last Friday.

During the girls' mass meeting the other evening one of the Junior faculty became so confused he rushed out with Dr Batt's hat instead of his own.

A letter was recently received from S. V. Anderson stating that he would soon return to the old U. C.

Ma Marshall's conundrum, "What has become of the dust and?" Young ladies appear innocent.

Misses Gertrude and Ruby Gibbons and Miss Fern Dynes were welcomed back by the old girls at the dormitory the first of last week.

Mr. Stockham reports that he has worked out his "Sulphur Determination Process" to completion.

The first hop of the season will be given by the Alpha Mus on Saturday evening, Oct. 16. As yet no details can be given, but the Mus have been so successful with their social functions in the past that it is safe to prophesy a good time to all who attend.

Olaf Hendrickson, one of last year's graduates from the teachers' course, arrived at the college Friday. Mr. Hendrickson will give lessons on the violin during the coming year. He is also a welcome addition to the band.

Among the new arrivals at the dormitory are Miss Agnes Lawrence and Miss Madge Baker.

The Animal Husbandry department recently sold the Montana A. C. several head of high class registered stock.

The class in inorganic chemistry still grows and as usual the supply of text books has run out, thus greatly inconveniencing the late arrivals.

The bookstore has on display an excellent line of banners which possess the admirable quality of representing the correct shades of yellow and green officially adopted by the college.

The all College reception which is given each fall under the auspices of the faculty will be held this year on Friday evening, Oct. 22. A committee already have the plans for the event well under way and a more definite account will appear next week.

The lecture at the Grand next Sunday evening will be by Prof. Stanford of the Moorhead normal. He will give an illustrated lecture on the Great Southwest, where he spent some time traveling during the past winter.

Prof. White has been suffering for some time with a boil on the back of his neck. However, he has it well under control, thanks to the careful attentions of Dr. Zeifle.

Target practice was again held on Friday afternoon, although the scorer reports a decided improvement over last week, there is still much opportunity for a display of brilliance.

Considerable interest was manifested in Durum flour on Durum day, which was last Thursday, and over two hundred samples were sent out from the college mill, going to all parts of the state. The reports thus far received from these are very favorable and it seems very probable that a large amount of Durum flour will come to be used in the near future.

Prof. Minard is chairman of the faculty.

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The football squad will sustain another heavy loss, for a time at least, due to the accident that Mr. Martineau had last Friday, when he broke his shoulder blade in practice.

Holkesvig having a surplus amount of cigars to oxidize on the way, went to Valley City with the rest of the "Bunch."

Mrs. McVeety attended the North Dakota Library association held at Valley City Oct. 7-8, and reports a very pleasant and profitable meeting.

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Prof. Dolve recently received several pictures from the coast, on one of which was a face which seemed very familiar to him. He inquired as to the identity of the person on the picture, and was answered by his friend that it was none other than Mr. Irle who at one time belonged to the class of '06 at this institution. Mr. Irle is now a junior at the University of Washington.

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A. C. STANDS

HIGH IN LIST.

(Continued from page 1).

per week per term. For instance a subject requiring five hours per week continued through a full term counts five units a subject requiring three hours per week three units and so on.

Statements of the Conditions of Entrance to and Graduation from certain Agricultural Colleges.

Institution	Entrance Requirements	Graduation Requirements	Correction for Entrance	Corrected Grad.
Mont. Agr. Col.	15	195	15	210
Mass Agr. Col.	14	213		213
Iowa Agr. Col.	15	210.5	15	225
No. Dak. Agr. Col.	14	250		250
Oregon Agr. Col.	9	225	75-	150
Michigan Agr. Col.	12 to 15	300	30-x	270
Wisc. Agr. Col.	14	200		200
Minn. Agr. Col.	15	216	15	231
Cornell (Agr. Course)	17	180	45	225
Illinois (Agr. Course)	15	195	15	210
Maine Agr. Col.	14	225		225
Wash. Agr. Col.	15	243	15	258
Missouri Agr. Col.	15	180	15	195

Michigan has maximum of requirements 270

Oregon has minimum of requirements 150

Mean of requirements (including Oregon) 220

Mean of requirements (excluding Oregon) 220

* Number of units above eighth grade work required for entrance to college courses.

* * Correction necessary to put all institutions herein mentioned upon the same basis of fourteen units. Correction followed by (-) are to be subtracted. All others are to be added.

* * * All institutions placed upon the same basis.

x. The correction is here based upon lowest entrance requirement, twelve units.

This data has been compiled by the special committee appointed to consider and report concerning the graduation requirements of this and other agricultural colleges, and will form the basis of the report that will be made by this committee at the next regular meeting of the faculty."

It will be seen that with one exception the entrance requirements are fourteen or more credits. The standard for colleges in this country being fourteen. This shows that it is impossible to gain admission to an Agricultural course with inferior preparation and disproves conclusively the popular opinion on this point.

In comparing the colleges themselves we find the North Dakota Agricultural College third on the list, only Michigan and Washington requiring more hours work for graduation.

In the case of the Washington A. C. 15 drill credits are counted which we do not consider so that on the same basis we outrank Washington by seven points, thus really holding second place.

It may readily be seen from the foregoing that the average high school graduate who enters the A. C. will be in nowise over prepared for the course which lies before him and the Bachelor's Degree granted by this institution is quite as good as that to be had at any other college.

While it is true that a young man or young woman, who graduates from our very best high schools with credits in excess of

the 14 required for entrance, may obtain the B. S. degree within three years after entering the North Dakota Agricultural College, this fact should not discredit the work of the school. Yale and other of the great eastern schools, grant a similar degree under similar circumstances.

The true measure of the standard of work done by the school is the way in which its work is accredited, in the greatest schools of our country. Thus, when Kent Darrow graduated in June 1909,

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Philip Moum who graduated

from the Farm Husbandry course last spring has presented the College with a pure-bred Shropshire wether. This is a very acceptable gift, and will add materially to our animals for class room purposes.

Mr. Moum is raising pure-bred Shropshire sheep, and promises to become one of the leading sheep breeders in the state.

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Prof. Shepperd at the request of Mr. Lanxon, '09, was at Alexandria the latter part of the last week judging at the County Fair and also to give a lecture at that place.

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