

# THE WEEKLY SPECTRUM

The Official Publication of the Students Council.

VOL. XXIV. XI. NO. 2.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY, OCTOBER 3, 1911

5 Cents a Copy.

## Our Football Team Is Having Some Bad Luck

Football prospects did not become any brighter last week. Schuman is still on the crippled list on account of a sprained ligament which he received some time ago but will probably be in the game again this week. Edwards, one of our star guards, has been in bed with a sore knee for several days. He is now moving around again and expects to be out in togs but will be able to do little playing this week and practically no scrimmage work. Balsinger has been having trouble with a growth on his heel. His foot was operated upon last Sunday and it is hoped that it will soon be well enough so that he can attend practice regularly.

These accidents so early in the term have put somewhat of a gloom over our football outlook. None of them have been very serious however, so if no more very serious accidents occur, we may still be assured of a winning team. Some more men too are dropping in to school and are coming out for the team. Gink Gorman returned yesterday. On account of doing too much outside work last year he fell behind in some of his class work. Gink has been working lately tho and expects to straighten out his conditions in a short time when he may be seen out in the field again. At least the rooters at the A. C. hope so.

Amos Ewen is another man who returned yesterday who has reported for practice. Amos is about as brassy a fellow as ever donned the mole-skin, and is a terror for hitting the line and will no doubt be a valuable addition to the team.

Boucher showed up yesterday and reported for practice at once. He played with the Fargo High School team for four years so will know the game from the start. He has not played for four years, but has been working in the harvest fields since the State Soil Survey discontinued operation the latter part of the summer so will be in good condition to play the game hard at any time.

No very hard scrimmage work has been done yet. They faced the second team for the first time yesterday. Scrimmaging will soon be made the larger part of the work. The men are working hard. The only trouble is a little too much timidity in handling the ball with many of the men. More ginger would be desirable.

Coach Rueber has given quite a bit of the time to kicking the ball. Caulkins and Breyer seem to be doing about the best in this department of the game.

The second team is getting along nicely. The biggest trouble has been the lack of material out of which to develop a team. At first only three men turned out for this team. About the most promising one of these was Foster who has now given up football entirely in order to be able to play in the band. Some new men have been coming in right along so now there are about enough men out to make up a full team but of course this is not enough. There should be at least two men for each position so that every man would have to fight for his place.

Keifer is a new man who is trying out for quarter. He seems to know how to play the game so will be quite sure of his position. Whitney has been playing center up to this time. Huggatt has been looking out for one of the guard positions. Boyd Thompson is one of the promising looking candidates trying out for tackle who looks like good timber for first team. Rommel is taking care of one of the end positions. Bill is a stout, energetic and heady little player so should have no trouble in holding his own. Mr. McKee is filling the full-back position. He is light but has had considerable experience and will be a good football player some day. Stewart is an entirely new hand at the game who is learning very fast and making improvements every day. If he keeps it up he will be a good football player before long. The Hall brothers are working for backfield positions and at least one of them is quite likely to get place on the team. Jack has some habits which he must overcome before he becomes a football player. Vego Mikkelson who



LAST YEARS CRACK SQUAD.

won some fame as a shotputter last spring, enrolled yesterday and will try out for football. He has never played this game before but he has strength and endurance and is willing to work so should be able to work up towards the first team in rather quick time.

Hugh Carr who returned yesterday will be a valuable addition to the team. August Berg is a husky looking new man who has just arrived who looks like he ought to make good on the team.

Claire Whitson is also expected back to school almost any time. He is a big muscular fellow so will be able to graduate from the second team in rather short order.

In spite of the difficulties under which it has been working, the team under the able direction of Coach Kalmbach has been doing some wonderful work. If given half a chance, you can be sure that Coach Kalmbach will develop a team which will make the first team fight to gain ground on them and which will make a good showing against any high school team in the state.

## Alpha Mu Fraternity Promotes First Dance

SATURDAY THE TIME. ARMORY THE PLACE. GET THE GIRL.

The Alpha Mu fraternity will begin the series of dances to be given by various organizations during the year. The Armory will be suitably decorated and the floor will be in the best condition for an ideal social hour. Dr. Putnam's seven piece orchestra will dispense the latest ball room melodies. Rumors are afloat that boys are too bashful to call at Ceres. Now, here is a chance to clear your name of this awful charge. Call her up and make arrangements for the affair.

A series of lectures on the general theme of Modern Education will be offered Monday afternoons at 3:30 during the fall term by the Department of Education. These lectures will be given by educators from Fargo and Moorhead and other places and by members of the faculty. They are intended to give college students, preparing to teach, views of education from different angles. Students not preparing to teach are equally welcome as well as residents of the city. The first lecture will be given Monday, October 2nd, in room G of the Mechanical Engineering Building by Prof. Collins of the Moorhead Normal School, whose subject will be Tendencies in Normal School Education. Among the Speakers who will be heard in the near future are Supt. Edwards of Moorhead, Supt. Hoover of Fargo, Professor Knowlton, Fargo College, President Hillyer of Mayville Normal School and President Worst. One fifth credit is given for the course.

## Eighty Men Already Out For Military Drill

CRACK SQUAD WILL SOON BE ORGANIZED. TRYOUTS WILL SOON BE OUT.

The military drill is now getting under way with about eighty men in line. The past week has been devoted to facings and marching and progress has been quite rapid. The cadets received guns and side arms Monday and the manual of arms will receive the greatest amount of attention this week. At present five drills are given per week. No promotions or appointments have been made as yet but will be made at an early date. A new drill has been devised for the Crack Squad. It will consist of an exhibition drill more intricate than that of last year and in addition it is hoped to put on an exhibition of wall sealing. In order that the drill will be well in hand for the first exhibition to be given at the Tri State Grain Growers Convention in January the squad will be organized in a few days. As is the case in all schools having a similar squad, no credit is given in regular drill for the work as it is not strictly a part of that department. The tryouts will be competitive and those interested can learn the date of the first tryout from the bulletin board where it will be posted shortly.

Last year was the squad's first year at the college and it met with considerable success considering that it was a new venture here. Three exhibitions were given. The first was given in connection with the Band Concert held at the Opera House during the Grain Grower's Convention. Later the squad gave a dance and exhibition drill in the Armory and received much favorable comment on its work. The squad proved to be quite a boost for the military department at government inspection as the inspecting officer was favorably impressed with the exhibition pulled off at that time. Undoubtedly exhibitions will be given at similar dates this year and in addition it is hoped that it will be possible to make at least one trip to some neighboring city.

### NOTICE.

Owing to a call for Geology I at ten o'clock students finding it more convenient now than in the spring can elect it at that hour. Owing to the fact that the Pharmacy department have just instituted a course in Mineralogy Course I in this subject is being presented at 11 o'clock. This is fitted for and will be open to students in all departments.

H. A. Hard.

### NOTICE.

THERE WILL BE A CLASS MEETING AT 12:45 WED. OCT. 4th IN ROOM N. ELECTION OF OFFICERS. ADDIE STAFFORD, Pres.

## Chemists Have First Big Feed Of The Year

DR. DOLT IS ELECTED PRESIDENT OF SOCIETY FOR THE YEAR.

Saturday evening the Chemical Club held what all are agreed in calling the most successful meeting of that organization ever held. It was the first meeting of the school year and as is the custom, was held at Pirie's Hall in the form of a banquet. The members of the chemical staff with their wives and lady friends were present, with Pres. and Mrs. Worst as guests of honor. Plates were laid for 31. The menu was an excellent one and was enjoyed by all present. Prof. Sudro as president was the toastmaster and introduced each of the speakers, who gave the following toasts. Pres. Worst spoke first. His subject was "Chemistry as an Economic Factor in Agriculture". He spoke of the importance of pure foods and the detection of adulterants. He also emphasized the importance of providing some means of feeding the people of the United States when the population has increased four or five fold as it inevitably must within the next century. The idea was suggested that instead of natural foods, we might have to rely largely on synthetic food products from the chemists laboratory.

The subject of Prof. Ladd's toast was "From One to Twenty-one". This was reminiscent in its nature and as it had to do with the early struggles of the college. Prof. Ladd stated that his first disappointment was in crossing the Red River, for was it not portrayed on the map as a wide and mighty stream and here was nothing but a sluggish prairie brook. He registered at the Columbia hotel and asked the clerk where the A. C. was located. The clerk said that he had never heard of it but that Mr. Chapin, one of the prominent citizens, might know something about it. Mr. Chapin said that the college was on paper and referred Prof. Ladd to James Holes, but Mr. Holes was in St. Paul. Prof. Ladd was thoroughly disgusted and determined to return east, but on going into the post-office he met Mr. Stockbridge, the president of the college, and decided to stay. The college started out in rented rooms in Fargo College. The first chemistry class numbered 35, but it is from such beginnings that the college and the chemistry department have grown.

Prof. Zeffle responded to the toast "My New Wife", a subject which he treated at exceeding length, but doubtless, excuses are to be made for him. He recited a number of anecdotes dealing with the trials and tribulations of the newly married. Among others, he told of buying tickets for a concert on Oct. 4th and on going to the place, finding that the concert was to take place Oct. 5th, showing the state of mind he was in. He concluded by saying that he

## Y. M. and Y. W. C. A. Reception

Everybody Gets Acquainted

The real opening of the social season at the A. C. was the Y. M. and Y. W. C. A. reception at the armory Friday evening. A grand opening it was too, being by far the best opening reception ever given by these organizations at the opening of the school year. Over one hundred young ladies and a hundred young men were present, their numbers being almost exactly balanced. At eight o'clock, a large part of the crowd was there. They began gathering in groups and started to get acquainted. When all had arrived, Sec. Miller took charge and began asking the girls to congregate in the west end of the hall and the boys in the east end. The girls now formed one line with Miss Haggart in the lead while Sec. Miller was at the lead of the line of boys. Now the grand march began, the two files made a circle around the room and met in the center. As they formed into a double line, the young man and young lady who happened to be side by side became partners for the time being. The march certainly was a grand one and would have done credit to any Junior prom. Sec. Miller and Miss Haggart showed real military ability in making the couples go through all kinds of maneuvers. Miss Jessie Peterson rendered splendid music which added greatly to the pleasure of those who participated.

After the march, all were seated and each couple was given a card with the name of an animal written across it, a toothpick, and a stick of chewing gum apiece and instructed to mold a picture of the animal with the gum, on the cardboard. A prize was offered to the winners. Prof. Smith, Registrar Parrott and Prof. Hard acted as judges. The awarded first prize to Rizoph Ladd and Ray Boyd who sculptured a crab which bore a remarkable resemblance to the genuine article.

Other cards were now passed around. These had a number on one side which decided the partner for supper and a number on the other side which indicated what group a person belonged to. There were twelve of these groups and each one was called upon to do some stunt during the evening. Number 1 gave a song which was a perfect example of a steam calliope and grand opera singing and at the same time gave a grand display of the wide range of their voices. Group number 2 was not to be outdone, so they staged a burlesque in which Mr. Arvold Jr.

was very happy and nicely located.

Mrs. Shepperd had the toast "Welcome, stranger, Enter ye in," which was probably one of the wittiest of the whole evening. She stated that when assigned her toast she protested but Prof. Sudro stated that it was easy, "just anything out of the Bible or poetry selections." She took him at his word and was surprised to find that the Bible helped her greatly. She found several references that were appropriate to chemists of which she quoted half a dozen, one of which was that "False weights and measures are an abomination unto the Lord." She then quoted one of Foley's poems showing the love of the easterner for the prairie.

Prof. Sargent's subject was "From the Land of the Codfish to the Land of the Flickertail." He said that it was quite a wrench for him to come west because he loved the water so much and loved to be on it. When he first came out here, he was expecting to see a schooner at the end of the long streets. At this point the speaker was interrupted by Dr. Dolt who said that schooners do not grow in a prohibition state. The speaker paid tribute to Prof. Ladd's work as a pure food commissioner. He said he believed Prof. Ladd loved the pure food fight not only for the sake of the public but for the sake of the fight as well.

The meeting was closed by a business session at which Dr. Dolt was elected president and Prof. Holkesvig secretary for the coming year.

acted the part of the villain and Miss Head that of the victim. Their parts were rendered in a very capable manner and caused much merriment among the audience. Group eleven came in ahead of their number and acted the hero part by playing a game of college football. The game was hardly started when Colley with his bunch of loyal rooters from group three swarmed in on the floor, lifted the valiant heroes above their heads and carried them off the field.

Number 4 was a musical bunch which entertained the crowd with one of the latest popular old songs. Group 5 was the aggregation which won the prize for carrying out their stunt in the best manner. It was in the form of a girls' class in calisthenics with Lucy Cockburn acting the part of commander-in-chief. This she personified to perfection and the way she made her girls move around and execute the most intricate movements was not slow. Group seven furnished as much amusement as any of them. This was the drill given by the Deutsches Krieger und Schlachter Verein led by Mr. Holkesvig. Here was a demonstration of what military training can do in so developing discipline and allegiance to their commander that a large number of men can work in perfect harmony as a unit at the bark and call of their leader. Group eight tried to imitate a glee club. A charade entitled "By George" was given by group nine. Group ten and twelve both delighted the audience with songs. The "Yellow and Green" was encored repeatedly until the girls in this group were forced to respond. Mrs. Shepperd, Dean Hoover and Prof. Bergman acted as judges and as stated before, awarded the prize which was a large box of bon bons, to group five.

Partners for supper were found by the numbers which were already in their possession. Delicious refreshments consisting of cake, cookies sandwiches, coffee and apples were served.

If coming social events this year can follow the pace set by this reception we are assured of a good time the rest of the year. For displaying a genuine college spirit it will be hard to surpass, for here every one seemed to be out, to have an enjoyable time and to get acquainted. Too much credit cannot be given to Sec. Miller and to the joint committee of the two associations who planned the entertainments and helped carry them out that evening.

## Polytechnic Society Holds First Meeting

PROFESSORS DISPLAY A GREAT AMOUNT OF WIT.

The Polytechnic Society held its annual banquet and business meeting at the Commercial Club rooms last Wednesday evening. Members of the faculties of Fargo College and Moorhead Normal who are engaged in scientific work were also present. Major Ulio and the new additions to the scientific staff were guests. Covers were laid for forty one and an elegant feast was enjoyed by all. This being finished cigars were passed and several after dinner speeches were given. Prof. White acting as toast master, gave a short address and then happily introduced each man from Fargo College, the Normal and the new men from the A. C. Wit flowed freely the entire time. Prof. Zeffle, newly married, was called on and responded with a good speech. Major Ulio gave a brief history of his army service and his talk was well received. This closed the affair and the members dispersed in a happy mood.

Prof. Dolve is engaged in directing the construction of a drainage system for the barn yards and the Athletic field. Seven thousand four inch tiles and two thousand one hundred eight inch tiles have arrived. The Main will traverse the Athletic field and will empty into the sewer north of the main building.

Mabel Piers came in from her school, Saturday on a visit to friends. While here she attended the chemical banquet.

# ALPHA MU DANCE, Saturday, October 7th 1911.

**THE WEEKLY SPECTRUM.**

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



E. M. Evingson .....Publisher

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

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

**TERMS.**

One year in advance .....\$1.00  
One year in arrears ..... 1.25  
One term ..... 60  
Single copies ..... 05

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Now is the time of the year to begin to think about entering one of the many public speaking contests which will be held here during the year. These are given primarily for your benefit and they will perhaps be of more benefit to persons entering them than anything else they can do while at the institution. But the persons entering them will also do a service to the college, especially those who represent us in contests with other institutions. We give below a list of the big public speaking events for which dates have been set this year. Look it over and see if you can not possibly enter one of them. If so go and see Prof. Arvold who will be very glad to talk it over with you. No matter whether you can enter one of them or not, cut this list of events out and put it up in your room so you can tell when they are coming.

**PUBLIC SPEAKING EVENTS.**

- North Dakota Agricultural College SEASON 1911-1912.
- Fall Term.**
- Nov. 24, 1911—Third Annual High School Declamatory Contest.
  - Dec. 8, 1911—Fourth Annual Joint Debate
- Winter Term.**
- Feb. 2, 1912—Seventeenth Annual College Declamatory Contest.
  - Feb. 9, 1912—Third Annual Short Course Declamatory Contest.
  - Feb. 23, 1912—Seventeenth Annual Local Oratorical Contest.
  - Mar. 21, 1912—Farm Husbandry Commencement.
- Spring Term.**
- April 5, 1912—Second Annual High School Debate.
  - April 19, 1912—Third Annual Inter-Collegiate Debate.
  - May 11, 1912—Fourth Annual Inter-Scholastic Declamatory Contest.
  - May 24, 1912—High School Commencement
  - May 31—June 4, 1912—Eighteenth Annual College Commencement.
- CITIZENS LECTURE COURSE...**  
Agricultural College Armory.  
SEASON 1911-1912.
- Nov. 10, 1911—Francis J. Heney.
  - Nov. 28, 1911—Thomas P. Gore.
  - Jan. 4 or 5, 1912—University of Wisconsin Glee Club.
  - Jan. 9, 1912—John Gunckel.
  - Feb. 12, 1912—Frank J. Cannon.

The young men of the Great Northwest — the lads who are attending our Agricultural colleges — are the ones who will be the builders of this Great Empire in which we live. The education which they are acquiring, through these institutions, places them far in advance of those who first broke the soil. These young men will take up their work with a knowledge, not only of what to do, but how to do it.—Fargo Blade.

One thing we need is more college yells. We should have at least one more recognized representative yell all of our own. With this in mind, the athletic management is making arrangements to offer prizes to the person who submits the best yell. Further announcements will come later. In the meantime get busy with your brains and see if you cannot make up a combination of English words or sounds which will make a good snappy college yell.

The library is beginning to be the scene of much reference work by disciples of the argumentative art. The preliminaries for the Inter-society Debate are not far away and members

of the Philomathian and Athenian societies are engaged in collecting material for their respective sides of the question. The banner is now in possession of the Philomathians and another one to be gained in a similar manner is to be competed for. The question this year is the Close vs Open Shop. The Athenians will defend the open shop idea. During the summer bibliographies have been prepared and Prof. Arvold has collected pamphlets discussing both phases of the question. Be loyal to your society and yourself and make the race for places on the teams all the more interesting. The practice and experience gained in contests of this kind are invaluable and will stand you in good stead when you leave college and enter upon your chosen field.

One of the most beneficial results of athletics to a college is the enthusiasm and spirit of loyalty it creates among the students. It is something we are all interested in; something we can all talk about. At our college games all class rivalry or any ill feeling which there may be between any persons or organizations is forgotten. There we all learn to be boosters for the A. C. One thing which is quite necessary, however, is that we have a winning team as often as possible. To have a winning team we must boost for it and help it along in every possible way. The very best way is by getting out in football togs and getting into the game yourself. Perhaps you have never played before. Get out anyhow. All you have to do is to learn. The coaches and the old men are only too glad to teach you if you are willing to learn. They need you and you need to get out for the exercise if for nothing else. You may not make the first team but the second team needs you just as much as the first team. Without a good team it is difficult to develop a good college team because they need somebody as near their equals as possible with which to scrimmage and from which to select players for the team. At present there are a large number of men around the campus doing nothing the latter part of every afternoon who are strong and heavy and in every way physically capable of making the team. They should get out in the field and do something. Those who cannot get out should boost for the team all the time.

What's the matter with having some football games between some of the different departments this year. The game between the Engineers and Aggies caused more merriment and as much excitement as any other game. Such a game also stirs up much good natured rivalry which is very much desired. Talk it over.

We give below the the total registration up to last Friday. Many new and old students are coming in every day, however, so this list would soon have to be revised. The proportion of college students is higher than ever before. It would be noticed that there are not quite as many Freshmen as last year. This is due to the fact that there were no graduates from the Agricultural and Manual Training High school last year due to the change in the course from a two year to a three year course.

COLLEGE	
Postgraduates .....	4
Seniors .....	19
Juniors .....	29
Sophomores .....	44
Freshmen .....	48
Specials .....	5
HIGH SCHOOL	
Third Year .....	39
Second Year .....	28
First Year .....	68
Specials .....	2
SPECIAL COURSES	
Pharmacy .....	19
Commercial .....	13
Sub preparatory .....	6
Specials .....	5

**Many New Additions To The Colleges Herds**

**ANIMALS ARE BEING FITTED FOR THE ST. PAUL SHOW.**

Some of the most interesting places to visit at the present time, are the barns and pens of the Animal Husbandry department. The department is fitting several steers for the St. Paul show and all students at all interested in animals of the best class should call at the barns and feast their eyes on these typey show animals. When out there, don't fail to see the forty or more "swinelets" which have recently arrived upon the scene. They are a fine lot and will make the juiciest and most delicious Thanksgiving roasts imaginable. Several valuable additions have been made to the flocks and herds of the department. Very fine boars of the Poland China, Chester White, and Berkshire breeds have recently been purchased. It is of interest to note that the former College Yorkshire boar, which is now owned by Mr. Devine won the grand championship at the Minnesota Fair. Another valuable addition to the flocks, is the new Southdown ram purchased at the Minnesota Fair by Prof. Richards. This ram won a lamb a placing in the ram lamb class at the Royal Show of England. He won as yearling the championship in his class at the Iowa and Ohio fairs during one week.

Mr. Geiken, our shepherd, is engaged in trimming and shaping the sheep in readiness for the St. Paul show. After trimming, each sheep is covered with a white blanket which packs the wool and keeps of the dirt. Gains of from 12 to 18 pounds per week are being made by the hogs being fitted for the show. Recently conditions which could not be prevented have been bad enough to cause bacterial infection to some of the dairy cows. In order to remedy this as much as possible, cement floors are being laid in one section of the barns, where new and modern stalls will also be placed. It is up to the legislature to provide more suitable quarters as soon as possible.

**Pedagogues Will Matriculate Here**

**NEW COURSE IS OFFERED TO FARGO AND MOORHEAD TEACHERS.**

Since Agriculture has begun its rapid advance into the educational field, and has been assured its legitimate place in the curriculum of secondary schools, teachers in those schools are beginning to discover that they are working under a handicap without some training in agricultural lines. This is especially true of the high school superintendents and principals, who should have some knowledge, at least, of the subjects taught by their subordinate instructors. The school men of Fargo and Moorhead have seen the handwriting on the wall and accordingly they have begun negotiations with this institution in regard to the matter with the result that a course is being instituted for graduates of Colleges and Normal schools who lack Agricultural training. This course will necessarily be confined to Saturdays, when reports will be made on references assigned in particular agricultural lines. It is aimed to give one term work in each main subject. This fall, the work will be in Farm crops, followed by a term work in Animal Husbandry in the winter and another term instruction in Soils during the spring months. The new course should be popular and profitable to those in a position to take advantage of it.

**MONEY MADE IN GROWING TOMATOES.**

Probably one of the best crops of tomatoes ever grown in North Dakota was raised at the Agricultural College this year, there being only 3/4 of an acre, which up to this time has produced nearly seven hundred bushels of fruit, and it is expected that two hundred bushels more can be procured from the patch. This exceptional yield, however, is probably due in a large measure to the condition of the soil, variety of tomatoes planted and the care of the crop.

A year ago last fall, the ground was plowed, subsoiled and kept thoroughly cultivated during the following summer. The seed of ten different varieties of tomatoes including ten selections of Earliana, seven of which were selections made by the college last season from individual plants of the desired type, shape and productiveness, also five selections of Wealthy made by the college were planted. It can be unhesitatingly said that the Earliana is the best all around and most satisfactory tomato for either the home garden or market. This seed was sown last March in the greenhouse and after being transplanted two inches apart each way, were placed in cold frames to harden. The latter part of May, they were set out in the garden, being planted four feet apart each way and thorough cultivation kept up till the growth of the plants made cultivation impossible. There were thirty rows and seventy five plants to a row.

The crop started to come so heavy that it was deemed advisable to do

# The North Dakota Agricultural College

**For Completeness of Equipment and Facilities 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

something in the way of canning. Therefore a canning machine, one of the home canner type that have made their appearance on the markets within the past few years, was procured. It was found that canning is a paying proposition for the person growing vegetables for the market when the demand is slow or prices low, the produce can be placed in tins and disposed of during the winter. It is also found that the product put up by home canners is usually a better quality than that received from large canning concerns for the reason that fruit can be selected more carefully, and of the proper degree of ripeness.

This canning outfit consists of a circular stove with a large tank for processing. This tank will hold forty gallons or one hundred and forty four number three cans at one time. The tomatoes after being picked are washed in cold water and put in 1-3 bushel wire baskets. They are then immersed in boiling water for one and one half minutes, which process is known as scalding and is done for the purpose of removing the skin more easily. The tomatoes are then peeled, the core first removed and are packed carefully into the different sized cans, the covers of which are then soldered on, the small tip hole in the center of the cover being left open. The cans are then placed in large baskets and immersed in boiling water to within one inch of the top, being kept there for a period varying from five to fifteen minutes depending on the size of the can used. They are then taken out and the small tip hole is immediately closed with solder. This process is known as exhausting. Again they are placed back in the boiler for a period

ranging from forty to seventy minutes depending on the size of the cans or until the contents are thoroughly cooked. After being taken from the boiler, the cans are plunged in cold water to check the cooking process. The cans are then stored for future use.

**ATHENIAN PROGRAM.**  
Literary activities again claim our attention. The Athenian literary society will hold their first meeting of the year Friday evening at 8:00 o'clock in the Athenian Room, Library building. The following program has been prepared by the committee of which John Wentz is chairman:—  
Instrumental Solo.....Jessie Peterson  
Reading.....Edwin Evingson  
Locals.....Arthur Ogaard  
Vocal Solo.....Esther Evans  
Conundrums.....Reginald Colley  
Riley Poems.....Grace Briscoe  
Instrumental duet.....Mabel Cox and Beatrice Alm.  
Everybody is cordially invited to attend.

**NOTICE.**  
There will be a meeting of the third year H. S. class Thursday Oct. 5th at 3:30 in Room M. main building for the purpose of electing officers for the present year. Every member should be there.  
By request of the President.

**NOTICE.**  
This year there will be no society editor on the Spectrum Staff. Every society or organization on the campus however is requested to select some person whose duty it shall be to write up their program and other events and hand them to the mem-

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bers of the staff and we will be glad to publish them.

Prof. Dynes has just begun an interesting potato breeding experiment. One thousand hills of a standard variety of potatoes are being selected with respect to yielding qualities and it is proposed to increase the yield by selection for a long period of years. A representative tuber from each hill will be quartered and each piece will be planted in a hill and the process of selection will continue.

Rueben Larson is again employed at the barns getting practical experience in dairying.

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## PERSONALS

The farm silo which has recently been filled with two hundred tons of silage, gave way under the great pressure and considerable juice escaped before the break was repaired by girdling the structure with three wide bands of iron.

Prof. Dynes class in Principles of Breeding is at present scouring the fields for specimens of variations in plants. The specimens will be mounted and will be an interesting feature of the work.

Gustavus Adolphus M. Anderson, the tall guy with the military air, who assists Burke Critchfield in his registration work, is spending a two weeks vacation at Fergus Falls, Minn.

Professors Randlett and Arvold are doing some clever work in connection with the coming issues of the Extension, particulars of which will be given next week.

It is rumored that Peter J. Hennon, the hustling foreman of the work in Field Crops, is soon to take unto himself a wife.

The composer of the best waltz for the University of California Junior Prom will receive a prize of ten dollars.

W. O. Whitcomb who has acted as assistant plant breeder at the Williston Sub-station since he graduated stopped off here a couple of days the first of last week. He was on his way to Cornell where he will take postgraduate work this year.

Dean Meidenhall was one of the tardy ones who arrived last week. He has been employed at the Langdon Sub-station during the summer.

Prof. Bolley, Prof. Martin and Supt. Hoverstad attended the Richland Co. fair at Wahpeton the last of the week.

Clare Parker, of Lisbon, manager of the basketball team in 1909-10, was taking in sights around the campus in an auto Saturday forenoon.

Pres. Worst received another call to recommend a man to fill an excellent position as agricultural editor of the Minnesota Extension Department at a salary of from eighteen hundred to two thousand dollars per year. As there were no men available at the present time to fill the position he was obliged to decline the offer.

Pres Worst delivered two addresses at the Richland Co. fair last Thursday. He reports that it was one of the finest county fairs he has seen this year. The exhibits were splendid. The display of fruit and corn was especially fine, quite a large number of thoroughly ripened well formed ears of corn being shown as well as beautiful specimens of apples crabapples and other North Dakota grown fruits.

Miss Mabel Empey, who for some time has acted as assistant secretary will soon leave for Seattle Wash. She will be succeeded by Miss Autram who for some time has been employed in the secretary's office. Miss Autram in turn will be succeeded by Miss Street. Miss Empey by her obliging manners and courteous treatment has made a large number of friends among the students and others connected with this institution who are sorry to see her leave and wish her success in whatever field she may venture.

Dr. Van Es, accompanied by Carl Hofstrand and Jack Dinwoodie, left last Tuesday for the Pennsylvania State Veterinary College, where he delivered the opening address of the college. Messrs. Hofstrand and Dinwoodie will continue their Veterinary studies there. Tunis Brandenburg, the other "Vet" of last year is taking up similar work at Cornell.

Dynamite has arrived for the experiment in the use of dynamite on some of the soils of the College. The Agronomy department has had some trouble with certain soils of a hard pan nature and is making an attempt to remedy the condition in this way.

Prof. Martin judged stock at the Wahpeton fair last week. Tomorrow he will speak at a Dairy Meeting at Lisbon. From there, he will journey to Bismarck where he will score at the final State Educational Contest and he will also address the Farmer's Institute held there.

The Creamery is being overhauled at present. The laboratory is being enlarged and a new pasteurizer and cream ripener is being installed.

Yesterday was Emmons County day at the North Dakota Industrial Exposition in Bismarck. This was the county in which Pres. Worst had his homestead. For that reason he was invited to be their speaker at the exposition yesterday.

Prof. Hoverstad accompanied Pres. Elliott from Wahpeton to Bismarck last week and will conduct a series of Farmer's Institutes at the Industrial Exposition.

Evan Hall made a quick run to the College from Bismarck last week. He is in charge of the exhibits of the demonstration farms of the state. He also is taking care of the College exhibit.

During the summer Peter Hennen and John Wentz spent considerable time in making exhibits for the contest at Bismarck and were rewarded by getting first and third prizes respectively. These prizes were \$125 and \$75.

Lawrence Tibert visited Ceres Hall Sunday evening.

Prof. Bolley left Saturday for the east. He will be gone about two weeks, stopping at Chicago and New York, and then going on to New Haven, Conn. to investigate a new flax fibre machine at that point.

Clarence Williams has been appointed scholarship assistant in the Geological department. It will be his duty to analyze the rocks and soils brought in by the soil survey this summer.

The library has recently received 172 new volumes from the bindery, including U. S. documents, reports and periodicals of all kinds.

A Corn Festival will take place at Lisbon on the 4th and 5th of October. Several from the College will attend and make speeches, among them being Prof. Waldron and Miss Hoover.

The Chemistry department reports greatly increased attendance this year, due largely to the much better facilities. The class in Organic Chemistry which last year numbered 18, has 40 members, while the class in General Chemistry which was 50 in number last year is 73 this year, with several more to come in. The attendance is so much beyond expectations that it was found necessary to send rush orders for more chemical apparatus and supplies.

Pres. Worst will deliver an address at the Burke County Fair at Bowbells next Friday.

Supt. Hoverstad is spending the most of this week at Bismarck where he is conducting an institute which is being held in connection with the Industrial Exposition. Among the speakers at this institute are listed some of the prominent speakers in the country. Among them are Prof. Holden of Iowa, Elliot of the N. P., Prof. Belden of Winnipeg and our own Pres. Worst.

Miss Leila Ewen, sister of Amos Ewen, registered last Thursday and has settled down in Ceres Hall. Amos arrived yesterday and football prospects are accordingly so much brighter.

The North Dakota Library Association of which Dr. Batt is president meets in Jamestown Oct. 20-21. The program is now in the process of preparation.

The Geology department has been donated two or three fine sets of marbles. The Barney Marble Co. of Swanton, Vt., gave some fine specimens, notably of verd-antique. Another set of Tennessee and Vermont marbles was presented by the Fargo Marble and Granite Works and the Dakota Monument Co.

The Committee of Seven, a standing committee of the State Educational Association met in Fargo Sept. 30th, and was attended by Professor Woecks of the Department of Education. The Committee met to compile its report for the meeting of the State Association in November. During its life the Committee has made a number of reports resulting in changes in elementary and secondary education in the state, and is charged with making suggestions for the improvements of educational conditions.

Irwin Storland has returned from Texas with a couple of horned toads which he captured on the burning desert sands. One of them escaped in a sleeping car on the way up and created a slight diversion until he was recaptured. Dr. Bell now has them in custody. They are most amusing little rascals and will undoubtedly be a distinct addition to the social life of the college.

Mrs. Worst was well rewarded for her efforts in fruit raising this summer. From a row of grapes planted around the garden fence she secured two and one half bushels of grapes this fall.

W. C. Palmer the agricultural editor of the extension department left the last of the week for Colorado Springs, where he will stay until after the Dry Farming Convention which will be held the middle part of this month, to keep track of events as they happen.

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## MUSICAL NOTES.

Twenty-two men turned out for the first band practice of the year, last week, which is more than ever showed up at the first practice before. The prospects for an exceptionally fine band this year are very bright. Among the old members who answered to the first roll call were Barrett, Amadon, Montgomery, Tibert, Yerrington, Boyd, Foss Manikowske, Kerr, Ielson, Boyd, Bachman and Colley. Others are expected back in a few days and these, with the promising new material which has come in, makes the bands outlook very bright.

The friends of Odin Stenhjem, solo cornetist in last year's band, will regret to learn that he will not be able to return to school for a while on account of having to undergo an operation for appendicitis.

Joy was evinced in musical circles of the college last week, when it was learned that Louis Kopelman, of Fargo, had decided to enter the A. C. Louie is an expert pianist and will play cymbals in the first band.

Reginald Thorne, clarinetist, and ex-student attended band practice Wednesday. Reg. is loyal to the A. C. and is always on the job when the band goes out to play for football games etc.

## Ceres Hall

The Sophomore girls entertained the Mission Study Club at Ceres Hall Saturday afternoon. A book, "The Butler's Story" was begun and fudge was indulged in.

The gymnasium classes are being sent out for walks while the weather is fine. This practise will be continued until the gym suits are ready. Boys are exceedingly scarce at Ceres both as borders and callers. Those who are there are said to be very timid and bashful.

The girls are unanimous in their expressions of approval in regard to the excellent dining room service and the boarding department deserves to be patronized more by those not rooming there.

Mr. and Mrs. John Dynes of Gardner spent Sunday with their daughter Miss Fern.

Several of the more fortunate girls attended the production of "He came from Milwaukee" given at the Opera House, Saturday evening.

Miss Beatrice Alm attended Norwegian Church Sunday evening.

Miss Emma Eastgate and Mr. Nelson were guests at Ceres Hall Sunday.

Sadie Kohler, the jolly blonde, will not return this year. She is attending the Frazee (Minn.) high school.

The production of "He came from Milwaukee" was honored most highly by a box party of some of our prominent men. Edgar Olson, bookstore magnate, Clare Parker, ex-student and present football coach of Lisbon High, C. F. Schroeder, our popular football captain and E. T. Thompson, the genial instructor in Animal Husbandry, viewed the entire performance from the upper left hand box and attracted the attention of the entire chorus and the gallery gods.

The Lisbon High School football team which was ingloriously defeated by the Fargo team last Saturday by

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As a graduate, it is, indeed, a pleasure to say a few words in favor of Aaker's Business College. I was placed in a stenographic position by Prof. Aaker, which I have successfully filled due to his school and the excellent training received while there. After working for eight months, my salary was increased 40 per cent. Several excellent positions have been offered me since leaving college, which I have been obliged to decline.

O. O. Grindahl.

Write for further information to A. B. C., Fargo, or Grand Forks.

the overwhelming score of 44-0, is inclined to attribute its defeat to the system of coaching given it by its coach Clare Parker, who is well known here.

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**MORE SCHOLARSHIPS WILL BE OFFERED.**

Pres. Worst and the Board of Trustees are working on a plan of giving out scholarships which will be of great benefit to some of our former students and to the state as a whole. At present there are quite a number of young men throughout the state who have completed about two years of our farm usbandry course but who for financial reasons or otherwise have been unable to complete their course.

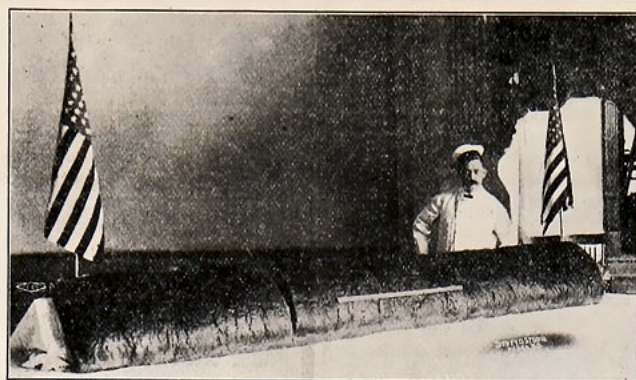
Pres. Worst proposes to give each one of these who will comply with certain conditions a fifty dollar scholarship. The agreement of one who accepts a scholarship would be as follows:

1. To carry out at least one special line of agriculture, either in animal breeding, improved seed production or cultivation of crops, not only for personal profit but as an object lesson for the community in which he lives.
2. To report results of farm management at least monthly, on blanks to be furnished by the Agricultural College, during seven months of each year (from April to November) for a period of not less than three years.
3. To practice, to the best of his ability, all branches of farming according to the approved methods taught at the Agricultural College.

4. To become a member of the Farm Husbandry Alumni Association and to use his influence to encourage systematic rotation of crops, especially the growth of corn and leguminous crops, the destruction of weeds, conservation of moisture and fertility, and to foster, by every legitimate means, such methods of farm management as will tend to place the agriculture of the state upon a truly systematic and progressive basis.

The value of a large number of farmers of this type scattered throughout the state would be hard to estimate. It is hoped that these scholarships can be given in the near future and that a large number of persons can take advantage of them.

Heretofore our glee club has been in a state of its infancy. This year it is hoped that there are plenty of fellows in school who are good singers to enable us to have the best glee club in the state. Any fellow who can sing should report to Prof. McArdle who will lead this musical organization this year.



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FORMER A. C. BAKER BAKED WORLD'S RECORD LOAF FOR SHRINERS.

One A. C. man, altho he has never been a student here, who won considerable fame last summer was Louis Mentzel who last year was the college baker. This fame he gained by baking the largest loaf of bread ever made. It was made especially for the Shriner's Special which went to the convention at Rochester in July from No. 1 Hard wheat to advertise North Dakota and especially bread, made from North Dakota flour.

This loaf was twelve feet long, two feet wide and ten inches high while its weight was two hundred and fifty pounds. A better idea of its size can be gained from the fact that it made twelve thousand five hundred sandwiches or several hundred ordinary loaves of bread. One person would be kept busy twenty four hours a day for several hundred weeks and it would keep the largest and poorest family in the United States from starving until Taft makes another reciprocity agreement with Canada.

It was baked in Abe Nordahl's oven in a pan which had to be made especially for the purpose and which was donated by Hubert Harrington. The bread was all sweet and delicious with a brown crisp crust. In Rochester it was given to the Associated Charities and fed to all the poor people and others in the city. It received a large amount of favorable comment in papers all over the country and was the source of much favorable advertising to the A. C.

Prof. Kirshman, like the Senior instructor in the Department of Modern Languages also spent much of the summer in the south. His vacation however was spent further west between Houston and Galveston, Texas. He was very well impressed with the country and purchased a small area of undeveloped land which he expects to convert into an orange orchard in a few years.

Hugh Carr's smiling countenance is again to be seen on the campus. "Gone" will be a valuable addition to the band and to Kalmbach's football warriors.

**The Girl with the Hobble Skirt.**

You see that form before you Three frustum'd double cones, Be careful or she'll hear you Express your scornful groans; She ambles down the sidewalk Her feet are somewhat pert; "Why who is she?" "You'll all agree The girl with the Hobble-Skirt."

She's standing at the corner The car is just in sight; She leans against the railing To keep her frame upright; Her face is in contortions, You'd class her as a flirt; "Why who is she?" "You'll all agree The girl with the Hobble-Skirt."

The car arrives upon the scene, She clutches on the rail; But lo, the bronchy hobble Prevents the upward sail. She tumbles in confusion, Her feet are most alert; "Why who is she?" "You'll all agree The girl with the Hobble-Skirt."

The con. now reaches out his hand, While harsh tones fill the air; She grasps it with a zeal unknown, To other damsels fair; He swings her to the platform, Great strength he does exert. "Why who is she?" "You'll all agree The girl with the Hobble-Skirt."

E. D. Sylvester, '13.

Our genial secretary, Mr. Yoder, is again seen at his desk having just returned from a visit to his old home in Indiana where he has been visiting since the first of the term. The completion of all the buildings under construction together with the appropriations which the legislature made at the last session has relieved the financial department of this institution of the embarrassments in which they were at this time last year.

Verne Oblinger is another old student who returned to continue his course in agriculture yesterday. August Berg is a new man from Ray Towle's high school at McIntosh, Minn., who matriculated in the agricultural course yesterday. Milo Oblinger is at the U. this year.

Miss Edyth H. Grasse of the department of music will have charge of the music for one of the three days during the annual meeting here of the North Dakota Educational association. The music for the other two days will be taken care of by Fargo college, one day, and the high school one day. The arrangement assures the music for the sessions here to be in good hands and attractive programmes may be anticipated.

Mark Heller made a flying trip to the Twin Cities on business Friday evening returning Monday.

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