

THE WEEKLY SPECTRUM

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NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY, JANUARY 9, 1912

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Dean Hoover Makes Tour Of The East

VISITS THE PRINCIPAL SCHOOLS OF COUNTRY—ATTENDS ANNUAL MEETING OF AMERICAN HOME ECONOMICS ASSOCIATION.

About the middle of December Dean Hoover left for the east for an extended visit to many of the most prominent eastern colleges and to attend the fourth meeting of the American Home Economics Association. After a short stop in the Twin Cities where she visited the Land Show, she proceeded eastward. One of the first schools visited was Simmons College in Boston. This is strictly a girls school, Home Economics being the only course offered. Their course and dormitory facilities were of special interest.

Teachers College of Columbia, was the largest institution visited on the trip. They have the largest Home Economics department in the United States. Our Home Economics course, however, compares favorably with theirs. Pratt Institute of Brooklyn was also visited. They give a great deal of practical work. A large number take advantage of their evening courses. They have a home-makers course very similar to ours, only the work is covered in two years and no diploma is given at the completion of the course.

Some time was spent at Drexel in Philadelphia. This is a co-educational institution teaching Manual Training, Home Economics, Commerce and Industrial Courses. Their Domestic Art course is very strong.

Miss Hoover also visited the Margaret Morrison Carnegie Institute of Technology. This school was founded and endowed by Andrew Carnegie and named for his mother. This school is one of the finest equipped for teaching home economics of any school in the United States. Several other smaller schools in Washington were also visited.

Of all the schools visited, all of whom rank among the best in this country, none were found which surpassed ours in equipment or in the courses offered. The entrance requirements were about the same and the courses offered practically the same except in details. The eastern schools are older, of course, and have reputations, but in progressiveness, they are not ahead of our western institutions.

The meetings of the American Association of Home Economics were very interesting. To this association belong nearly all the teachers of Home Economics in the U. S. and Canada.

Among the subjects discussed the most were College Extension courses for the elementary schools, Domestic Art for Colleges, Secondary and Elementary Schools, and Courses in Textiles. Special emphasis was laid on Domestic Art as this is the branch of Home Economics which is now being developed the most rapidly. In former years, these meetings have been conducted mostly by eastern people. Now, however, the west is becoming interested. At this meeting, Miss Hoover was elected a member of the legislative committee which is quite a recognition of her ability.

Miss Hoover is greatly pleased over her trip and over the treatment she received at the different educational institutions. It gave her an opportunity to compare them with our A. C. After seeing them all she is more than pleased with North Dakota and the A. C. and believes that the students have opportunities here which are not surpassed anywhere and that before long the A. C. will be ranked with the institutions of national prominence.

Levi Thomas left Sunday night for Minneapolis to secure samples of grain from the Minnesota Inspection Department for tests at our Grain Standardization laboratory.

One Of Our Graduates Offered High Position

Mr. Thos. F. Manns, at the present time Soil Bacteriologist of the Ohio Experiment Station, has been tendered the position of Plant Pathologist and Soil Bacteriologist to the Delaware College and Experiment Station. Mr. Manns will probably accept this position, as it gives him full charge of the department. The Delaware Station has always maintained a department of Bacteriology and Soil Biology and the position has been filled by a number of the ablest men in the country.

Many Fargo people will remember Mr. Manns as head of the A. C. football team, and his friends at the agricultural college will be pleased to hear of his continued promotion in his chosen life's work.

The training which he obtained was entirely in the Department of Biology of the North Dakota Agricultural College. For a number of years Mr. Manns was a special student in this work at the A. C., and afterwards became Assistant Botanist of the Experiment Station, in association and working with Prof. Bolley especially upon flax and wheat diseases. Since going to Ohio Mr. Manns has made a fine reputation by continuing his work upon wheat diseases, accomplishing results which show that Prof. Bolley's work along these lines was originally well planned to give results.

RECORD ATTENDANCE IN BAND DURING FALL TERM.

During the last term, the band had a record attendance that is hard to beat, and of which it can well feel proud. In the fall term, fourteen men never missed a single rehearsal. Eleven only missed one, five players were absent but twice, and two were not there three times. The other two members were sick for some time and were obliged to miss quite a number of rehearsals, but even then, the percentage of attendance was 90.7 per cent perfect. Quite a number of the band men are volunteers, who have finished compulsory drill and play in the band for enjoyment only, so the record is a better one than it at first seems to be. Never before has the attendance been near as good.

TAKE NOTICE—SHORT COURSE STUDENTS.

On Friday, Feb. 9th, the Annual Short Course Declamatory Contest will be held. This is given for short course students. They should make every possible effort to enter. All who are interested should see Prof. Arvold, Room O, Main Building.

MISS GRASSE RETURNS—GLEE CLUB MEETS TODAY.

Miss Grasse was detained at Rochester, Minn., last week, on account of the operation on her father, but returned yesterday to take up her musical work. She would like to meet all the girls in the Girls Glee Club today in the Ceres Hall parlors at the usual time.

Mr. Falconer, who at one time was one of the best basses in the band, is back to school this term after an absence of several terms, and intends to continue his studies until he completes the college course. His presence is welcomed in the band.

NOTICE.

The College Declamatory Contest will be held Feb. 2. All persons thinking of entering should see Prof. Arvold as soon as possible.

Overheard near the postoffice:
Shorthorn: "How much postage on this package?"
Miss E: "Is it merchandise?"
Shorthorn (excitedly): "Oh no, it's mine."

John Gunckel Speaks At The Armory Tonight

THE SECOND NUMBER OF THE CITIZENS LECTURE COURSE.

Tonight we will have the second number of the citizens lecture course when John Gunckel, the famous champion of the newsboys will lecture in the armory. Nearly a hundred newsboys will be here tonight to hear what he has to say and to honor him by their presence. He arrived in town early this morning. Today he is speaking before the graded schools of the city, but tonight he will be with us, so be sure to be there to hear him.

The following interesting incident is told concerning John E. Gunckel's lecture in one of our western cities:

He was to address the Federated Women's Clubs comprising some ten clubs. The day was unusually pleasant and at the time he was to lecture, which was 3 p. m., the hall was crowded. In all, some seven hundred ladies were present.



A few minutes before the hour of beginning, the chairman of the entertainment committee called Mr. Gunckel aside, and said: "Mr. Gunckel, many of the ladies are anxious to meet you, and we have provided an after-lecture luncheon, and we would like to have you lecture exactly one hour."

Mr. Gunckel said that it would be no trouble for him to stop at any time. But after some moments the lady came to him and said, "Mr. Gunckel, so anxious are we for the reception that I want you to stop at 4 o'clock, and I want to tell you when the hour is up, but unfortunately I have forgotten my watch. Will you please lend me yours so that I can stop you promptly on time?"

Mr. Gunckel handed her his closed case watch. When he began to speak he saw her place the watch on the stand immediately in front of her, but she did not open it. He talked ten minutes when it flashed over his mind that the night before he had forgotten to wind his watch and it had stopped. He was uneasy but talked on until about fifteen minutes past when he whispered to the lady that his time was about up.

She replied in an undertone, "Just go on." He did and after talking fully an hour and a quarter, he again called her attention to the fact that over an hour had passed. She said, "Mr. Gunckel, go on," and the audience cried, "go on."

He talked nearly two hours and to his surprise the chairman never opened the watch case and never knew the watch was not running.

John Gunckel speaks at the Agricultural College armory tonight. Better hear him.

The reading of this literature on wheat, flax and pure seeds should be of much importance to the farmers, and interest them more in the production and care of these cereals.

A. L. Miller's latest: "If we had some ham we would have some ham and eggs, if we had some eggs."

Moorhead Normal Loses To The A. C.

A. C. BASKETSHOOTERS MAKE 21 POINTS—NORMALITES MAKE 18.

The basket ball team played the first game of the season last Saturday evening against the Moorhead Normal which resulted in a victory for the A. C. aggregation. The game throughout was rather rough though few fouls were called. Coach Kingford's quint had a decided advantage in being accustomed to the floor which was hard to play on. At the north basket, there are two posts which a player is in danger of colliding while trying to shoot a basket.

The absence of Capt. Wheeler from the lineup left the team in rather bad shape. Wheeler is the pivot of the team and most of the plays are centered about him. John Nolet, last years forward, who is not yet back in the game, was also missed. When the whistle sounded for the end of the first half, the big end of the score was in favor of the Normal boys and it looked very much like the local boys were being outplayed. However, in the second half a change in the lineup was made and practically a fresh team was sent in against the Normalites. This half was the aggie game and at the final whistle, the score was in favor of Coach Ruber's quint.

For the Normal, Burke, at center, was a star, their team being practically a one man team. The ball was passed to the center whenever possible, who stayed close to their basket and he did most of the shooting. For the A. C. Darrow, Balsinger, Hall and Simpson played good ball.

Balsinger and Darrow at guards played close and did fairly well at passing. Hall was at his best at basket shooting. Simpson outplayed his man, but failed to place the ball where the guards could get it.

The next game will occur in the A. C. Armory against Concordia College, on Jan. 13th. The fellows of the local aggregation may expect to see a faster team in the field next Saturday evening, as there will be two of last year's stars back in the game.

Coach Watkins refereed the game and his work was perfectly satisfactory. The lineup was as follows:

A. C.—	NORMAL
Simpson-Gorman.....c	Burke
Balsinger-Updahl.....g	Lowman
Darrow.....g	Stalley
Hall.....f	Johnson
Hackett-Bentley.....f	Paxton

The social class in Pharmacy for the winter term, while not so large as expected, has over fifty members, including students from North Dakota, Minnesota, Wisconsin and Canada. This is the last short course to be offered, for the new law requires that after January, 1913, all pharmacists who apply for registration must have had at least one year of college work in pharmacy. In connection with this course Dean Ladd is arranging a series of lectures to be given by prominent business men, and also addresses by attorneys on medical jurisprudence and the application of law to the practice of pharmacy.

Mr. Congdon of the food department visited Grand Forks last Saturday to bring complaint against a local merchant for the sale of adulterated and misbranded maple cream, which had been largely adulterated with glucose.

During the past week the food department has taken in over \$10,000 for registration of beverages according to the law. As fast as received, the money is turned over to the state. There are still many products which have not yet been registered.

Tena Grest, '10, spent the holidays with her parents in Fargo.

Larger Appropriation For State Soil Survey

HARD GETS INCREASE.

Prof. Hard during vacation attended the meeting of the American Association for the Advancement of Science, which was held at Washington, D. C. He attended the meetings of the Geological and Chemical societies and was absent about two weeks. While at Washington, Prof. Hard interviewed Mr. Whitney of the Geological Bureau and was very fortunate in obtaining an increased appropriation for the soil survey work. After Prof. Willard left, and before Prof. Hard came, all federal co-operation lapsed and the work was at a standstill. Prof. Hard's efforts have been to get the work started again and he has been most successful. Last year, through correspondence, he succeeded in getting half co-operation, and now through the kindness of Prof. Whitney, he has gotten full co-operation. This means that for every dollar the state spends, the federal government spends two, and the soil survey receives nearly \$10,000 in two years. Competent soil surveyors will be sent to this state from Washington to work with Prof. Hard and his assistants. This enlargement enables the completion of the Barnes County survey which was started last year, and which it was feared could not be completed. Prof. Whitney has been very generous, and the state should be grateful to him for his aid. Mr. Morbut, formerly state geologist of Missouri, who has charge of the field operations of the bureau of soils, has shown marked interest in North Dakota, and with Mr. Lapham, will inspect the work in North Dakota for the federal bureau. Mr. Lapham inspected the work last summer, and it was in large measure due to his very favorable report that co-operative relations could be resumed.

January

Janus,

Two-faced potentate,
Tho wisest of them all;
The gates of Rome
Your ancient home
Thy Honor's name recall.

You keep the doors of time,
Its scepter holds with care;
With key in hand
You watch'd the sand
Time measures to compare.

You ope each future gate,
And close that of the past;
Where thou alone
Imperial zone
Recalls, foretells, holds fast.

You usher in with cold,
Now nose and toes must send;
A message rare
Of condens'd air,
For fire, feet fondly trend.

Your name shall pass thru time,
Commemorating you,
JANUARY
Cold and airy,
With skies of grayish hue.

—E. D. S.

The Girls' and Boys' Institute which was held here during the last week of school before Christmas, was a great success. Sixty-four boys and thirty-eight girls were in attendance as delegates. Besides these, there were nineteen who attended as visitors. They were as enthusiastic a gathering of young people as was ever seen around the campus. They took great interest in the lectures and demonstrations given for their benefit, and a large number of them hoped to return at some future time.

The Lyceum of Engineers are talking of putting on an electrical show in the engineering building at some time during the winter.

Short Course Men Enjoy The Y. M. C. A. Stag Social

ALL KINDS OF ENTERTAINMENT FURNISHED NEW STUDENTS SATURDAY NIGHT—BIG FEED FOLLOWS ATHLETIC STUNTS.

Friday evening, the Y. M. C. A. gave a stag social for the Short Course students. There were about 200 present and the social as a whole was the most successful that has been held here for some time. President Worst gave a speech to which all the fellows present listened with attention. A tug of war was the next thing on the program and was very exciting. Those present were then divided into sides which stood each other in a peanut race. This was also very exciting, and it will suffice to say that the peanuts disappeared after the race. A three legged race was also held and this furnished a great deal of amusement for the non-participants. It was at this point that it was found necessary to make a forceful ejection of Pearson, Dynes and Miller from the kitchen, owing to their desire to devour the "weenies" in large quantities before the set time. Walters was also found sucking a can of condensed milk. The fellows, however, did not begrudge him any. Physical Director Lansing and Mr. Sullivan of the city Y. M. C. A. were then introduced to the crowd by Hugh Miller. They demonstrated the different holds used in wrestling and then put on an exhibition wrestling match, each contestant securing two falls. The work of the referee Mr. Miller was as a whole poor, and not up to the standard. Mr. Lansing also gave a very excellent exhibition on the parallel bars. Then Grover Edwards and Walter Lynch of football fame, gave an exhibition boxing match. At this point, Roy Dynes announced that the "Free Lunch" was open and the fellows immediately began to do away with untold quantities of "weenies," coffee and bread. Walters also managed to do away with another can of milk with the aid of Gustafson. After the fellows had all partaken of the lunch, Wallace Manikowske entertained the crowd by a selection on his fife. The crowd began to break up at 10:30, all the fellows voting the Y. M. C. A. men good entertainers. A great deal of credit is due Mr. Miller and Mendenhall for the enjoyable time.

The Montana Exponent comes out with a double issue, the first number of the year to celebrate their second anniversary. This was as fine a piece of student newspaper work as we have ever seen. The Exponent is always one of the newest exchanges we receive, and in make-up is perhaps better than any.

Miss Agnes Halland '11, was a visitor at school during the vacation, which she spent with her parents in the city.

Miss Mae Englehorn, one of last year's students, who has been teaching during the fall term, is again in school continuing her course in pharmacy.

Prof. Dynes: "What kind of a crop is tobacco?"
Sylvester: "Tobacco is a forage crop."

The registration of short course students for this term is a little over four hundred, or twice as many as last year. This year, the short course students are taking more practical work in agriculture, engineering and shopwork, and less arithmetic, English and other subjects which should be taken in the grades.

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THE WEEKLY SPECTRUM

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

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

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 Clarence Waldron, '12.....Associate Editor
 Arthur Ogaard, '13.....Associate Editor
 Bert Gorman, '14.....Athletic Editor
 Harold Bachman, '16.....Musical Editor
 Thomas Calnan, '13.....Assignments
 Grace Shelton, '14.....Ceres Hall
 Herman Halland, '14.....Campus
 Rubeen Larson, '14.....Locals, Station Work
 Ben Barrett, '12.....Cartoonist

This term we have a large number of students who are with us for the first time and who intend to stay here only one term. One term is a very short time to spend in school. No person can hope to accumulate any vast amount of knowledge in such a short time. Something every one should do, however, is to make the very best of the opportunities they have here. Get into sympathy with the work being done here. Get into contact with the men who are doing things, and get in touch with the literature which is being sent out from this and other stations.

The best way of becoming acquainted with the college is to take an interest in college activities. Try to see all the basketball games. They are far more interesting as soon as you learn something about the game, than any of the cheap shows down town, and deserve your patronage very much more. During the winter you will have an opportunity of hearing many splendid lectures. These are well worthy of your attention. Those on the citizens lecture course which is given in the armory, are especially worthy of your support. The price of admission is very reasonable, barely covering the cost of having these speakers with us. The first number of the course comes tonight, when John Guncel will give a lecture you cannot afford to miss.

We hope that the stay of all short course students will be both pleasant and profitable, and that after a terms work here they will leave with a better impression of the A. C.

At present the prospects for a band tour during the winter are not the best, as the expenses of the trip would be quite large. The band boys have not given up hope yet, but are discussing plans on how they can get away. The trip they would like to make would be up the Great Northern past Hillsboro and Grand Forks to Grafton. Then back past Grand Forks and west to Devils Lake, perhaps playing at some point on the way. From Devils Lake they would go west to play at Minot, and perhaps at some intermediate point, and then back over the Soo to Carrington, and south over the N. P. to Jamestown, from which place they would come home. Such a trip would take a week. It would be of great advertising value to the school, would create enthusiasm in the band and would furnish some splendid recreation for the band boys.

There has been some talk about the campus of organizing a boxing and wrestling club which would afford a suitable exercise for those who do not take part in basket ball. Boxing, if taken in the proper spirit, is a very good exercise and would undoubtedly become very popular in the institution if a club could be organized. There are a number of men in the institution that are fistic performers of no mean ability who could be of much help to others who wish to become more proficient in this line.

Boxing as a professional game is brutal and repulsive but there is no need of it becoming brutal as a college sport. In larger universities there are boxing and wrestling tournaments conducted and much interest is taken in this branch of sport. A number of students who frequently indulge in the art and find it a very suitable exercise have been talking of organizing a club.

PATRONIZE OUR ADVERTISERS.
 When purchasing anything from our advertisers, tell them that you saw their ad in The Spectrum, and be so doing help us along.

TEACHERS TAKE SPECIAL WORK IN AGRICULTURE

During the past term some of the instructors in the Fargo and Moorhead schools have been taking special work in Agriculture on Saturday mornings. These people see the significance of the great movement in the country today for agricultural education and are trying to get in sympathy with it. As there is only one recitation every week, most of their efforts are directed at supplementary reading. During the past term, they have been studying agronomy under Professor Dynes. In the winter term they will take up Animal Husbandry under Professor Richards, while in the spring term their efforts will be directed towards the study of soils.

Labor Savings Appliances For Agricultural Dept.

Several kinds of computing machines are being tried out by the Agricultural Department. This department has to do an immense amount of computing in compiling results from the vast amount of experimental data which is being worked out from time to time. All of this computing has to be done accurately so it has become necessary to secure some computing machine for doing the work. The machines being tried out at present are the Brunsviga, Peerless and Comptometer, while one of the newest Burroughs machines is expected in the near future. All of these machines have some points of excellence so it will require some time to determine which machine will be purchased.

Secure Good Bulletins: They Cost You Nothing

The following Press Bulletins may be had by any teacher in numbers sufficient for class work, upon application. At present we have the following for such distribution:

- No. 2. Seed Wheat.
 - No. 11. The Uses of Formaldehyde on the Farm.
 - No. 18. Selecting Potatoes for Seed and Treating to Prevent Potato Diseases.
 - No. 23. Resistant Seed Flax and How to Get It.
 - No. 25. Types of Machinery Necessary for Use in Spraying for Destruction of Weeds in Cereal Grain Fields.
 - No. 27. On the Uses of Chemical Sprays in Destroying Mustard, Kinghead and Other Weeds in Cereal Grain Fields.
 - No. 28. Canada Thistle, Means of Holding in Check.
 - No. 29. Quack Grass, How to Hold It in Check.
 - No. 33. Deterioration in Wheat Yields Due to Root Rots and Blight Producing Diseases.
 - No. 39. Growing Flax on New Lands.
 - No. 40. Growing Flax on Old Lands.
 - No. 42. The Essentials of Flax Cropping for Seed Production.
 - No. 44. Relation of the Corn Crop to Flax, Wheat and Other Cereal Cropping.
 - No. 46. Flax Culture.
- Address, Department of Botany, Agricultural College, North Dakota.

The following new books have been received at the library:
 Encyclopaedia Britannica, 11th ed., 28 volumes.

Collections of the State Historical Society in North Dakota.

Webster's New International Dictionary.

The Mind of Primitive Man.—Boas. Farmers of Forty Centuries.—King.

Progress and Prosperity.—Washington.

The Standard of Living Among Working Men in New York.—Chapin. The Story of the Cotton Plant.—Wilkinson.

Cotton Spinning.—Marsden. Silk.—Corticelli Silk Mills. Goodwin's Course in Sewing, 3 volumes.

Domestic Art in Woman's Education.—Cooley.

How We Are Clothed.—Chamberlain.

Cotton Weaving.—Marsden. Two Centuries of Costume in America.—Earle.

Science and Hypnotism.—Poincare. Principles of Science.—Jevons. Force and Matter.—Buchner. Short History of Natural Science.—Buckley.

Life After Death.—Fechner. Human Immortality.—James.

Kant and His Philosophical Revelations.—Wenley.

Mere Literature.—Woodrow Wilson.

Introduction to Philosophy.—Kulpe.

Magda.—Sudermann.

Fundamentals of Child Study.—Kirkpatrick.

Youth, Its Education, Regime and Hygiene.—Hall.

Educative Processes.—Bagley. The American High School.—Brown.

Classroom Management.—Bagley. Aspects of Child Life and Education.—Hall.

Great Pedagogical Essays.—Painter.

American Schools, Their Administration and Supervision.—Chancellor.

A History of Education in the U. S.—Dexter.

High School Administration.—Hollister.

The Principles of Teaching Based on Psychology.—Thorndike.

The Government of N. D.—Boyle. Atlas of the World.—Hammond.

Manual of Poisonous Plants.—Pammel.

The farmers' institutes are now being held throughout the state. On Wednesday an institute was held at Hannah. The speakers were Supt. Hoverstad, Supt. Stewart of Langdon, and Prof. Palmer. On Thursday an institute was held at Edinburg. The speakers at this meeting were Mr. Palmer, F. W. Merrill, of U. S. Dept. of Agriculture, and Theodore Kristjanson.

This week institutes will be held at Rugby, Devils Lake and Kindred, and the following week will be spent at the Grain Growers' Convention. The other meeting scheduled for January are: Leeds, Jan. 22 and 23; Bantry, Jan. 24; Surrey, Jan. 26, and Berthold the 27th.

ALPHA ZETAS HAVE FEED.

The local chapter of the fraternity of Alpha Zeta gave a banquet in the banquet room of the Copper Kettle Inn last Tuesday evening. A good four course dinner was partaken of by about thirty people. Those attending were the active alumni and honorary members of the local chapter. Thomas Cooper, of the Minnesota Chapter, and secretary and manager of the North Dakota Better Farming Association, and one of his assistants, J. V. Bopp, of the Illinois Chapter, were guests of the local chapter. Those of the members, who are doubly blessed, brought their wives and made sport of their more unfortunate brothers. Prof. Donehue made good a toastmaster, and coaxed some short talks from Dean Shepperd, Thomas Cooper, Mrs. Shepperd, Supt. Lanxon, Edwin Traynor, and Thomas Calnan.

A SAD CASE OF DESERTION.

Another bluff was called last Friday evening, when a party consisting of Lawrence Tibert, Grover Cleveland Edwards, and coed friends were leaving Pirie's Cafe. One of the young men, filled with the spirit of the indispensability of man, called the attention of his fair charge to the absolute necessity of herself as her escort. Thinking to slightly reduce the unmistakable enlargement of his cranium, the coeds struck off down Broadway together, and held up Dick Bjornson for his last dime. Returning to Stern's corner, they found that their bluff had also been called, when they caught a fleeting glimpse of their escorts entering the Or-

The North Dakota Agricultural College

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

The College Department offers Eleven full Courses viz:

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

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

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

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These courses all fit fully for college entrance

Special Courses:

Pharmacy	Commerce	Homemakers	Farm Husbandry
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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.

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Agricultural College, North Dakota

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

pneum. The next car brought the sad, but wiser, maidens home, where they are now planning dire revenge.

ATHENIAN PROGRAM.

To be given Jan. 12, 1912.

Instrumental Duet.....	B. Barrett
President's Address.....	H. Bachman
Humorous Reading.....	A. Ewen
Current Events.....	E. Evingson
Piano Solo.....	U. Ebner
Locals.....	Maud Engle
Selection.....	Leila Ewen
Alumni Dope.....	Gertrude Gibbens
Piano Solo.....	Levi Thomas
	Selected

BAND REHEARSING DAILY.

The Cadet Band is rehearsing quite hard these days, getting in trim for the concert to be given by the band at the operahouse Wednesday evening, Jan. 17th, at 7:30 o'clock. The Crack Squad, although handicapped by several members adding a week to their vacations, is being drilled every day, and will give an exhibition at the operahouse, as the opening number of the evening program Tuesday, Jan. 16th, at 7:30 sharp.

JUNIOR PROM JAN. 26.

The committees in charge of the Junior Prom, which will be held Jan. 26th, are making elaborate plans which are expected to eclipse all attempts made by preceding classes along this line.

Invitations will be sent out this week to non-students. The price of tickets has not been definitely fixed, but will probably be higher than formerly on account of added expense in every way.

Special Rates to Students

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

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

DORGE & JANSRUD, Photographers
 112 Broadway, over Palm Theatre
 Formerly Swem Studio

Later: After deliberating on the extra cost of this Prom over that of last year, when there was a slight deficit, the Juniors have decided that the price of tickets will be \$3.00.

STRICTER LAB RULES.

The rules for working in the biological laboratories have been made stricter than formerly, owing to the fact that students have not been careful and have allowed apparatus and unfinished work to accumulate until it becomes well nigh impossible to do satisfactory work, besides creating a very unfavorable impression on visitors. The rules now require that the students in the laboratories must, when they finish work, put away all apparatus and supplies with which they have been working, and if places have been assigned for the apparatus, it must be put in the proper place. If a student desires

to work in one of the laboratories, he should apply to the professor in charge for a place in which to do his work and for storage of his materials. The tables are supposed to be cleaned up after work, and the students should remember that no one is hired to do the work which they should do.

MORE FIREARMS ARRIVE.

Fifty new guns, side arms and belts have been received, and cleaned up by the military department. Co. A will be issued the new arms and tan belts.

M. B. Johnson, formerly assistant superintendent of demonstration farms, is in the city. He will begin work under Thomas Cooper in the interests of Better Farming.

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PERSONALS

Mr. Reinholt is making a few sign for the Corn Show which is a dandy. The words Corn Show are made in raised letters of corn cobs and show up fine.

Reg. Dynes came down from Gardner Saturday to spend Sunday with the folks in Fargo.

Charley Ruzicka enjoyed the liberty given him during the holiday vacation with friends in Fargo.

Levi Thomas left Sunday night for Minneapolis to secure samples of grain from the Minnesota Inspection Department for tests at our Grain Standardization laboratory.

Santa Claus presented Mr. and Mrs. Trimble with a daughter during the holiday vacation.

There was quite an emigration to Iowa from here at the end of the fall term. Among the students who spent the holidays in the Hawkeye state are Mr. Livengood, Mr. Wentz, Mr. Hammond, Mr. Perry and Mr. DeWein.

The Hesperian Literary Society will hold a business meeting on Friday night. Officers for the coming term will be elected and new members will be received. All members and prospective members are expected to be there. Room: N. main building.

Miss Haggart and Miss Hoover are in Crookston today. Miss Haggart gives a lecture on Home Nursing and Miss Hoover lectures on Home sanitation before the short course students in the Crookston Agricultural School.

The Agricultural club are going to stage a play later in the term.

Ray Towle, '11, spent part of his holiday vacation in Fargo.

Mr. Jacobson, brother of Miss Sadie Jacobson, is not back to school this term having accepted a position as secretary to the general manager of the John Wanamaker department stores in New York. Wilbur Rankin succeeds him as collaborator in the mill.

Two unsuccessful attempts have been made to get a successor to the head of our herd of deer that died last year. The first buck was wild and died in transit. The second arrived here last week in a much damaged condition, being bruised in many places and having septicemia in his right hock. It was found necessary to put him out of misery.

The number of students taking Vet. XI has passed the century mark there being 108 enrolled.

Theo. Kristjenson of the Ag. Dept. delivered an address on alfalfa at the farmers' institute at Edinburg last Thursday.

President Worst and Professor Shepperd spoke at the meeting of the \$100 an acre club at Valley City on Friday and Professor Dynes spoke there on Saturday.

Edwin Traynor, '11, is acting as a special instructor in the Agronomy department this term.

On the night of the 17th of this month the Farm Husbandry Alumni association will hold its fifth annual banquet at the Gardner hotel. On the following evening the members of the North Dakota Live Stock association will hold their banquet at Pirlie's hall. These banquets are held annually during the Grain Growers' Convention.

Professor Dolve attended the convention of the Association of Agricultural Engineers in the Twin Cities during the holidays.

Clarence Plath, '09, is back taking post-graduate work in Agriculture this term.

H. A. Berthenson, one of our Farm Husbandry graduates, now farming near Merrifield stopped off here for a short time Wednesday. He was on his way home from Valley City where he has been spending Christmas with Alfred Lee, '14.

Winnie Crouch is again back to school to finish his high school course. He intends to graduate with the third year class in the Agricultural and Manual Training High School.

Rasmus Sorenson of Webster, spent Thursday visiting with his son and daughter, Christian and Hildur, and looking over the college.

Professor Trimble is now teaching a class in sociology at nine in the morning. Quite a number are taking this course. Special attention is given to rural sociology.

Last Thursday was one of the coldest days ever recorded here, our weather station recording thirty-one below zero on that day.

P. J. Olson spent the end of the week in Faro. He was on his way from the northern part of the state where he spent Christmas, to Alexandria, Minnesota, where he is giving the young people ideas in better farming.

Mrs. Shepperd is busy preparing a program for Women's day at the Grain Growers' Convention.

John Einerson, Farm Husbandry, '11, of Milton, is back to school this winter doing special work.

Adolph Dahlbeck is not back to school this term having finished all the subjects required for the completion of the Farm Husbandry course.

Ray Thomas who finished his first year in the engineering course here, but who moved west and continued his studies at the University of Oregon, is now president of one of the leading fraternities out there.

Mark Heller has sold his interest in the Copper Kettle Inn to Mr. O. Barrett, and the name of the firm will hereafter be Barrett & Co. Mr. Heller's numerous other duties made it impossible to look after all of his work so he had to dispose of some of it. He will now re-enter school and will probably finish with the present Senior class.

The mill is not such a busy place since the new chemical building has been completed. Mr. Stockham is the only chemist working there at present. One of the laboratory desks upstairs in the mill was moved to the chemistry building last week.

Carl Hofstrand, who completed the two year's course in veterinary last year, stopped off at the A. C. Saturday on his way back east from his home at Brinsmade, where he has been spending his Christmas vacation. Carl is getting along fine at the University of Pennsylvania where he is continuing his veterinary work. The thorough work done in the two year course here makes it easy for him to keep up with the work down there. Both Mr. Hofstrand and Mr. Dinwoodie became members of the Alpha Psi fraternity soon after entering the University. The Alpha Psi is the leading honorary veterinary fraternity in the country.

Prof. Hendrickson, our violin instructor has been detained at home on account of sickness but is now back and will meet his pupils this afternoon at his studio in the Music Hall.

President Worst speaks at chapel at Fargo College tomorrow and at the Farmer's Institute in Devils Lake Friday.

Miss Reynolds will attend Fargo High School the rest of the year. Her home is only three blocks from the High School which makes it much more convenient to attend.

Miss Lavina Ketchum did not return until Saturday; pressing engagements at home making it impossible for her to return with the other Montana people from Glendive.

A much needed improvement in the gym during the holidays was the addition of four more baskets with banks. That will make it possible for quite a number of persons to practice at the same time.

Paul Krueger is not back to school this term, having completed the work required for the farm husbandry course.

During the fall term, Herbert Brown made a dynamo which is as clever a piece of workmanship as was ever seen here. It was designed by Mr. Brown and built entirely in the A. C. shops. He will ship it home and have it attached to a gasoline engine.

Carl Yerrington returned from Spokane Sunday. This will probably be Mr. Yerrington's last year here, as he contemplates entering the agricultural college at Pullman, in his home state, next year.

Anxious Mother: "Where is my boy? He has not come home for dinner?"

Registrar: "He may have gone to Ceres Hall."

Mother: "No, my boy is a good boy. He does not do such things."

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I was offered a position by the school as soon as I had completed my course, and I understand that it has been able to place all the students who wished positions.

Wishing the A. B. C. a prosperous future, I remain,

Respectfully, JULIA TWEETEN.

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Ceres Hall

Miss Hoover returned Saturday from her long trip through the east and to her home.

Miss Rhoda Fosbourn dined with her roommate's relatives New Years day.

The Misses Blanche Moyer, Rhoda Fosbourn, Ada Lockner were the only girls remaining at Ceres Hall through the holidays.

Miss Gina Bratberg was confined to her room nearly all of vacation with a very severe case of tonsillitis.

Chester Holkesvig and Henry Reddy called at Ceres Hall frequently during vacation.

All the rooms at the Hall are now filled, many girls have been turned away already, and still others are coming. The old girls are nearly all back.

The Eastgates entertained the servants and a number of their friends at a Christmas tree during the holidays.

Kathleen Kelly, now teaching in Hillsboro, and Miss Alice Kelly, dined with the Eastgates Thursday at the Hall.

Miss Dora Poland, while on her way to Wisconsin, visited Miss Louise a couple of days.

Miss Ruby Gibbens spent the week end with her sisters, Gertrude and Mary.

Miss Mae Englehorn is back at school again living happily with Miss Alm.

Miss Ruff, of the U. of Chicago, is one of the new Ceres Hall inmates. Mr. and Mrs. Yoder dined at Ceres Hall Thursday.

Prof. Traynor is the new addition to the faculty in the dining room. Professors Olson and Gibbens visited at the faculty table Saturday noon.

The farmers' institute annuals No. 11 have arrived. There are 25,000 which will be distributed at the different farmers' institutes, at the grain growers' convention, and will be mailed upon request. The only charge is 10 cents for postage. Requests for these farm books are now coming in at the rate of a hundred a day. There has never been such a demand before. This shows that the farmers of this state are becoming more interested in literature relating to the farm and the raising of crops. They are interested in finding out new and better methods whereby the yields of farm crops can be increased and therefore greater profits obtained.

President Elliott, in a letter to Supt. Hoverstad, Friday, stated that he would be here to speak at the Grain Growers' Convention.

BOLLEY ADVOCATES SEED GROWERS ASSOCIATIONS

On Jan. 4 Prof. Bolley attended the Crookston Short Course School of Agriculture, and during the day delivered two addresses. He spoke in the morning on the subject "Crop Rotation and Plant Diseases." He said that crop rotation is no new idea, but except in a few counties, it is not practiced as it should be. Lack of consistency is a great weakness. In some cases fertilization is carefully followed out, but poor crops follow, a result which Prof. Bolley attributes to plant diseases in the soil. He discussed potato, flax and wheat diseases as examples to support his theory. Seed selection and treatment was pointed to as a remedy.

The afternoon address was on the subject of pure seed. He said that we should have state and national laws to prevent foul seed being distributed and sown. There should be a seed control laboratory in each state. With such a laboratory farm crop rotations would be greatly improved. He advocated the formation of a seed growers' association to prevent further deterioration of farm crops. All seed grain would be examined and that of superior quality would be listed for sale and the members of the association could raise the value of their crops by purchasing this seed. Both lectures were listened to with great interest and followed by lengthy discussions.

FALL TERM LIBRARY REPORT

The number of books drawn from the library for home use during the fall term was 2380; of this number 55 books were history, biography and travel; 228, literature; 126, fiction; 139, agriculture; 40, domestic science; 701, periodicals and 388, not including the large number of magazines, pamphlets belonging to the Extension Department, books of various kinds used in the reading rooms by the students of this and other institutions, or the books used for reference in the departmental libraries.

The number of new books added to the library by purchase during the year was 257.

There are about two hundred newspapers of the state to be found in the library; these are received as exchanges for the bulletins and reports of the experiment station.

About one hundred farm papers are also received as exchanges.

The list of periodicals to be found in the library numbers 90; this number does not include the periodicals which are kept on file in the different departments.

AT THE GRAND.

The lecture next Sunday night will be one of interest to A. C. students. Dr. Gottfried E. Hult of the University, will give a new lecture which he has prepared, on "The Mind of Shakespeare." Dr. Hult was formerly professor of English at this college, and his lectures in this city are always well attended.

During the past two weeks Prof. Bolley has employed from ten to twelve students preparing bulletins for circulation. These bulletins are mostly on wheat, flax, and pure seeds. They are now ready for mailing and this will be one of the largest mailings ever made in North Dakota for there are 125,000 bulletins, \$0 to 90 thousand of which will be mailed to different people in North Dakota. The others will go mostly to Minnesota and South Dakota. The weight of these bulletins is 3 1-2 tons.

Among some of the most necessary apparatus received by the biology department is a new carbon dioxide tank with a freezing microtome so that plant materials can be frozen at will. This will greatly increase the number of experiments which can be performed and will help in a score of ways.

During vacation Prof. Doryland visited his home in Kansas and then took a trip to New Jersey, on strictly business reasons. He is at a loss to explain why so many people are offering congratulations, but wishes to set all rumors at rest by saying—nothing doing.

Prof. O. W. Dynes went to Valley City Saturday to judge the exhibit at the One Hundred Dollar an Acre Association meet. This meeting was attended on Friday by Prof. Sheperd.

CONVOCATION.

There were a larger number of students present at convocation on Monday than at any time for the last year. The reason was obvious, as President Worst spoke, and it also being the first convocation of the winter term. A new system of seating was brought into force which is a great improvement on the old. After Prof. Minard had made the announcement he introduced President Worst and it is needless to say he received a ready welcome.

President Worst talked to the students upon their conduct during their time at school and home, and told them that if they followed their own conscience of right and wrong, and behaved like ladies and gentlemen at all times, that they had no need of fear of the college authorities. His speech was, as his talks always are, full of good advice and showed his interest in the students and people of North Dakota and it is the hope of the student body that we may hear Prexy again soon.

NEW APPARATUS FOR PHYSICS LABORATORY.

Some more splendid apparatus has been added to the physics laboratory. A finely adjusted anemometer for the measuring of the velocity of the air to be used for determining the amount of air passing through heating flues, etc., has been purchased.

One of Wolperts air testers has been secured. This is a very compact little instrument for the measuring of the carbon dioxide and other impurities of the air. With this device, a sample of the air of a room can be carried away in a pocket and tested hurriedly. Some electro-dynamic charts have been ordered which are especially fine. A new polariscope has been secured which is especially suited for student laboratory work. A new combination volt and ammeter is a very convenient piece of apparatus which can be used for many purposes. A large number of 6 volt lamps have arrived which are to be used in experimenting with individual lighting plants. Eight selenite films have been ordered for laboratory work. The most ingenious and interesting new piece of apparatus is a new transformer made by Harrison Bunt in the shops and laboratory. This transformer is so made that a 110 volt current can be stepped down to almost any voltage between 2 and 110 by simply moving a lever. This device, like other apparatus Mr. Bunt has made, is so well made that it could not be distinguished from a piece of apparatus made by any of the best manufacturers of scientific instruments. Our physics laboratory is rapidly becoming one of the best equipped in the country, especially for practical purposes.

During vacation Prof. Miller was busy mounting a collection of weeds which he made during the past summer. These weeds together with the seeds as a separate collection known as weed seed collection No. 1 are to be sent out through the state and to the agricultural high schools in order that the people interested may become acquainted with the most common weeds and the seeds which they produce. Twenty-six of the weeds most common in North Dakota make up this weed collection No. 1. During the past summer enough weeds have been pressed to make 100 sets.

Dr. and Mrs. Bell spent their Xmas vacation at the home of Mrs. Bell's parents at Elkader, Iowa.

Wilbur Rankin has assisted the station in the enumeration of the fertilized ova of the wheat plant and in other similar scientific investigations.

The race is on. Moorhead Normal fell. Who is next?

Despite the advice of the Spectrum, many students continue the practice of coming back a week late after vacation.

Campbell: "Say, is Vernon Arvold Prof. Arvold's son?"

Prof.: "Have you ever taken chloroform?"
Student: "No, what hour does it come?"

Dr. Bell and family spent their Christmas vacation in Iowa.

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Mr. J. L. Weaver who graduated from this college in 1907 and who since that time has been engaged in stock raising at Sidney, Mont., will be here for the next three months and assist in teaching the short course students.

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