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### The Tendency in Clothesmaking

And buying has been along radical lines. By general consent the fancy or "freak" styles have been given over to the college or high-school boys. The point with us has been to get goods of this kind that will bear inspection as to workmanship; goods that we are willing to stand back of to the limit. There isn't a style we carry that isn't in good taste.

### The Model

#### GREAT INTEREST IN THE FORENSIC ART

Fourteen Have Entered Contests for Honor and Beautiful Trophies.

Never before has there been such enthusiasm aroused at the A. C. as has been developed by the contestants for the annual oratorical contest to be held Feb. 26, 1909. The great number of the contestants as well as the snap and vim with which they have entered into the contest work promises to make it the best as well as the largest contest that has ever been held at the A. C. Among those who have signified their intention of entering the contest are the following: Lanxon, Nemzek, Traynor, Magill, Olson, Mercer, Murphy, Clark, Staples, Becker, Michels, Gifford, Ford and Moore. The subjects that have been chosen are both unique and interesting. Such as "An Era of Conscience," "Grains of Gold," "The Message of Science," etc. The great diversity of subjects offers a refreshing variety for the listeners.

#### Prizes.

Prizes to be offered this year excellently that have been offered in the past. To the fortunate holder of first place will be presented a gold watch, and the man who secures second place will be given a like present. If you desire to enter the contest you should hand your name in at once.

#### Declamation.

The declamation contest has already attracted the attention of a large number of students and promises to be one of the interesting events of the coming winter. Any and all who desire to try for the Worst medals should get busy at once.

#### O'Connor on Team.

Mr. J. F. T. O'Connor, an alumnus of the University of North Dakota, and well known because of his prominence in oratory and debate in college circles, was recently honored by being among the chosen three to represent "Yale" in debate against Harvard and Princeton.

#### PREP. STUDENTS LAUNCH SOCIETY

Hesperian Literary Society Held Its Initial Meeting Friday.

Taking its place among the other societies of the school is the Hesperian Literary Society the organization of which was completed last week. The membership of the society is limited to Junior and Senior preparatory students of the College, its formation coming naturally after their exclusion from many of the other societies of the College. But one other qualification is required of their members and that is that they be male students, girls being excluded by the harsh decree of the majority.

The first enthusiastic meeting of the society was held last Friday evening in Professor Arvold's room. The officers of the society were installed at this meeting. Mr. William Rommel went into the presidential chair; Royer Amidon into the position of vice president, Mr. Wentz as secretary and treasury, and Mr. J. F. Sparling as censor, who, together with Mr. Knudson, will make up the executive committee.

At this first meeting the president was called upon for an address, as was also the secretary and the vice president, who spoke respectively upon the duties of a secretary and of a member. Following these was a very spirited debate upon the question, "Resolved, That the Present Ideals of Socialism Are Detrimental to the Good of Humanity," in which all of the member took part.

#### Purpose.

The purpose of this society is to provide food for the other literary societies, and to raise the standard of their work by giving them a preliminary course in parliamentary practice and literary work. The members are enthusiastic over the work and express their appreciation of the opportunity of securing valuable practice along literary lines. They promise to make debate a prominent feature of their work.

This society was launched at the direct initiative of Professor Arvold whose efforts to stimulate interest in debate, oratory, and literary endeavor are known to us all.

#### AN ALL-TEAM

Lineup of a Theoretical All-Dakota-Minnesota Football Team.

Not wishing to be left in the cold and not agreeing with other All-Dakota-Minnesota teams that our contemporaries have chosen and published, we have, after inviting the deep thought and consideration of football critics at the A. C., chosen a lineup for that team which, if it could have played as a unit would have made the strongest possible combination that could have been made from the teams of the school represented:

End—Conmy, U. N. D.  
Tackle—Putnam, Hamline.  
Guard—Wellman, Shattuck.  
Center—Page, Hamline.  
Guard—Dyke, Carleton.  
Tackle—Haskins, N. D. A. C.  
End—Pollock, Fargo College.  
Quarter—Darrow, N. D. A. C.  
Halfback—Roddy, U. N. D.  
Halfback—Broderick (capt.), St. Thomas.

Fullback—Nemzek, N. D. A. C.  
Though no one may agree with the above but ourselves, we would like to say that for the A. C. men they have been given their places because of their strong individual playing in a team of raw recruits.

At the Washington University the class in journalism will edit the Pacific Wave for a week. They expect to set up a high standard for the regular editor to live up to.

#### MANAGER'S REPORT IS MOST PLEASING

The Athletic Association Is Square With the World.

Most important of the business that came before the Athletic Association at their Tuesday meeting was the hearing of the report of the manager and the consideration of the financial condition of the Association. The report was most satisfactory considering the fact that less than a year ago the Association was burdened with a debt of very nearly a thousand dollars, much of it being of long standing.

"At the present time," said Manager Halland, "the Association has reason to congratulate itself upon the fact that it has neither poverty nor riches, but is square with the world. During the past season the total receipts were \$1,516, \$1,416 of which was received directly as receipts from the football games and 100 as a donation from a friend of the association. At the present time there are outstanding bills amounting to \$260, this amount being practically covered by what is still held by the management."

For this excellent showing and the credit is certainly due to the manager for his careful and efficient management during the year.

#### NEW COURSE IN THE DEPARTMENT OF BIOLOGY

Professor Bolley is offering a course of lectures on "Applied Biology," which will deal with the various groups of plant and animal life and their relationship to industry, manufacturing, commerce, sanitation, disease prevention, breeding, and cropping. These lectures are offered in the Sophomore year, but will be open to any student of any of the courses above the Freshmen.

Students interested in this work should confer with Professor Bolley.

#### PRACTICAL WORK IN FREE HAND STUDIO.

A number of girls in the Free Hand Drawing Class are working on a set of curtains for the studio. At present the curtains are being sewed. As soon as the sewing is completed designs, which were made earlier in the term, will be stenciled on them. When finished the curtains will not only add greatly to the appearance of the studio but will demonstrate the practical nature of the work which is being done by the students taking the work.

The Engineering Students in the free hand drawing class are making perspective drawings of parts of machinery.

#### NEW FOOD LAW PLACES RESTRICTIONS ON CATSUP

On December first a law went into effect in this state which prohibits the sale of any tomato catsups containing preservatives. Dealers were warned of this nearly a year ago so that merchants will incur very little loss save through willful disregard of the warning.

At present Professor Remington is overwhelmed with samples of catsups which the food inspector is sending in for analysis. More samples are arriving every day and all of this month will probably be spent in analyzing them. Hitherto catsups containing one part preservatives could be sold if properly labeled but all these brands will now be blacklisted till the manufacturers comply with the new law.

A number of brands of lemon extract were analyzed in the food laboratory recently to determine whether or not artificial coloring matter was used. Nothing of importance has been determined as yet.

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- Oct. 20th—Bishop Quayle, lectures on "Jean Val Jean."
- Nov. 26th—Chicago Glee Club-Male Quartette.
- Jan. 5th—Ross Crane Cartoonist and Humorist
- March 19th—S. W. Gillilan—Lectures on "Sunshine and Awkwardness."
- April 1st—Gov. John A. Johnson, Lectures on "The Majesty of the Law."
- April 20th—Gov. John A. Folk, Lectures on "The Era of Conscience."

Course Ticket, with privilege of reservation, are \$2.50  
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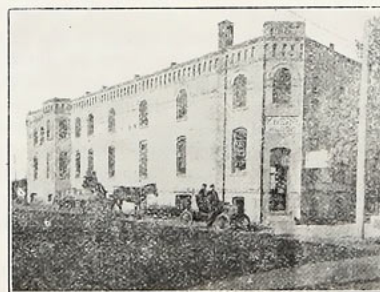
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#### BASKET BALL AT THE UNIVERSITY.

"The University 'Gym' is the center of unusual excitement. So many are there trying for the different girls' and boys' teams that twenty minutes of practice apiece each day is hardly long enough to accommodate all. Of the last year's star men's team there remains Capt. Netcher, Nelson and Sorenson. Among the promising candidates for the vacant positions are: Killo, Sandlie, Opdahl, Martineau and Sal of last year's squad."

The material for the girls team is said to be unusually good and the University expects to have two winning teams this year. The season will start with one or two min-

or games before the holidays.—Student, Nov. 25.

This ought to be an encouragement to our engineers. Here is what the I. S. C. Student has to say "North Dakota College Engineers constructed a heating plant to warm up their football bleachers last week. Noble youths! Your stunt is worthy of much emulation."

The Freshmen girls of the Minnesota University have recently formed a "Bib and Tucker" Society. It is the subject of considerable ridicule but is living never the less.

# OUR TRIP EAST

President J. H. Worst.

In company with Mrs. Worst and about eighty North Dakotans we left St. Paul on the 10th of November to be present at the launching of the battleship North Dakota and to attend several conventions in Washington, D. C.

On the way to Boston we had a pleasant four hours' stop at Niagara Falls. The time was occupied in becoming better acquainted with this greatest of Nature's wonders.

Fortunately our train made schedule time so that we arrived in Boston several hours before the launching. To see the launching of the ship was itself worth the journey. Imagine a hull of steel 510 feet long, 80 feet wide and about 40 feet high, weighing thousands of tons, cut loose from its fastenings and propelled by its own weight into the sea. To check its progress it had to break hundreds of three-inch ropes, which gradually liberated her immense cable, so that after dipping into the water and floating out a little more than her length, there was but little strain upon her cable.

Miss Benton struck fair and true when the great fighting machine was christened, and with such force that the ship never stopped until she had reached the end of her cable.

After the launching the company broke into groups and visited the city, taking in the Bunker Hill Monument, Faneuil Hall, Harvard University, etc., etc., together with extensive automobile trips through the suburbs. Several groups met again in New York where from one to three days were spent viewing sights only to be found in America's greatest city. In this city one may see quarters more Hebraic than Jerusalem and more Italian than Rome. There also one may see the homes of America's greatest financiers, principally located on Fifth Avenue and along the Hudson drive. Conspicuous among these millionaire residences were those occupied by men who made their fortunes in modest ways. There was the fortune made from manufacturing the glove button; from manufacturing Castoria, "the thing children cry for;" another from manufacturing listerine, etc., etc., but most of the fortunes were built up by systems of even fiercer financing than those already noted. These constitute the financial and social element of New York City.

We spent a week or more in Washington, attending the meeting of the American Association of Farmers' Institute Workers, also the American Association of Agricultural Colleges and Experiment Stations, and were privileged to listen to a portion of the Bleached Flour investigation directed largely by Professor Ladd of the Agricultural College. These meetings were well attended and enthusiastic.

There is a strong sentiment spreading in favor of reorganizing the whole educational system, at least so far as it relates to rural life, it having thus far been entrusted to those who have not manifested sufficient sympathy for country life, and have not intelligently catered to rural needs. The general feeling is that it is time for the agricultural colleges, the farmers' institutes and the rural communities themselves to take a hand in saving the nation its most vital heritage, as well as to encourage those naturally charged with its stewardship. The Country Commission appointed by the President finds this sentiment very strong in all portions of the country.

Taking all together we had a very pleasant journey, but were glad to get back once more to the A. C. and greet her nearly 600 earnest students. One sees much to admire while traveling, but always more to admire on his return.

**I. S. C. Student:**—Thanksgiving day Ames won from Drake U. by a score of 6-12. "The Ames Cyclones" retain the championship of Iowa. The various teams of the Missouri Valley conference have run a neck to neck race for the title and Kansas justly claims the title although Missouri, Nebraska, and Ames by comparative scores show an almost equal strength.

The Spectrum would like to suggest to some of our exchanges, that a little less criticism in the exchange department and a few glimpses of what is happening in other schools would make those departments more interesting.

Before all the games at Washington University they had the same "hard luck" story that sounded familiar to us.

There are fifty-two student organizations at Missouri. Wonder what Dr. Batt would do if he was chairman of the student organization committee at the institution

# Impressions of Anarchy

W. H. Mercer.

When the "Queen of the Anarchists" spoke in Fargo several days ago, I went to hear her for the same reason that many other people went. The principal motive was curiosity to see a woman who is known the world over and dreading, at least by crowned heads, perhaps more than any other living person. I was surprised by the very words that I expected to hear.

The entire address was a bitter tirade against every government and political and social organization in the civilized world. Think of the impression that such an address would produce on one who has scarcely ever heard a single word of such sweeping condemnation. I scarcely dared to believe my sense of hearing for a moment. Then as I began to realize that I was fully awake and that a woman was really speaking, I began a mental analysis of the woman and her subject. What environment could have produced a person apparently so out of joint with the whole human race? Or was there really a reason for her contentions due to the fact that the whole existing social order is wrong and without a vestige of right?

I felt justified in acquitting myself of the charge of prejudice when I rejected her theory. Because, if the whole human race had been fooled for more than six thousand years, then I had inherited the character of ignorance, which had been present in the human race since the dawn of history, and it would be impossible for me to awaken in two hours.

The woman was well educated. She repeatedly referred to such men as Emerson, Carlyle and Tolstoi. She had made the subject her life work and was thoroughly versed in the affairs of government. But how she could have arrived at the conclusion that she has will remain a mystery for ages to come. I can only say that such arguments as she makes can produce nothing but harm as they will appeal to none but the morbid, criminal and the most densely ignorant.

Chicago students will no longer be warned of being behind in their work, as no notices are to be sent out until the end of the quarter. According to their recorder, Gurney, "If the student does not know whether he is behind in his work, he doesn't know enough to be in college."

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## NEW FRATERNAL SOCIETY FOR CHARITABLE PURPOSES

**First Donation Designated to Improve Sanitary Conditions.**

A new fraternity was organized at the College last week, the Amalgamated Order of the Mephitic Mephitica. The first meeting was held on Thursday afternoon in the Engineering Building, and a committee appointed to select an appropriate name which committee unanimously agreed on the above, which will hereafter designate the order. The officers elected for the year were H. B. Darling, president, and A. P. Murphy, secretary and treasurer.



**A. P. Murphy**  
Secretary and Treasurer of the Amalgamated Order of the Mephitic Mephitica, who will draw up the constitution.

Although the society acts in conjunction with the Barbers' Union, a committee was also appointed to purchase sheep shears, laundry soap, and other paraphernalia necessary for carrying out the aim of the club which is to better the sanitary conditions of *Pediculus capitus* pastures.

By a vote of the order the initiation fees amounting to thirty-seven cents, were donated to a shaggy locked member of the Two Year Steam Engineering Class, Mr. Murphy making the presentation speech in his usual clear diplomatic style.

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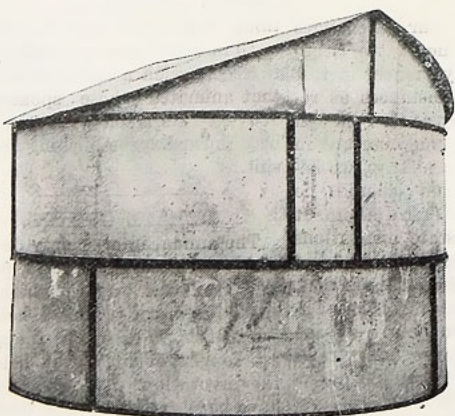
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#### Errors.

When the present management of the Spectrum took up their work last fall they did so with the determination, as far as possible, to eliminate typographical errors. In a measure we have been successful; not in eliminating all mistakes of this nature but in reducing the number. Occasionally we are much encouraged by some kindly disposed gentlemen who have told us that they have noticed an improvement in this respect. These are few and far between, however, and most of the comments that come to our ears especially from certain members of the faculty are of a different nature. The same criticisms, coming as they do from the same source and with the same continual harping on the same line, have provoked in us an attempt to defend ourselves publically and we are going to do this by giving a few plain facts at which we hope no one will take personal offense. We are not posing as martyrs and have no intention of doing so. We at all times invite criticism on the subject matter of the Spectrum; we realize that the work is of considerable bulk and is for the most part done by students that it must have many imperfections. However, one thing that is striking about criticisms received is that they are all on the same phase, no effort being made to give intelligent, helpful criticisms of the subject matter, arrangement etc.

Last week one of the members of the faculty, who is evidently a consistent reader of shrdl shrdluu after carefully perusing the sheet found twenty one typographical errors. About half of these were plainly due to unavoidable slips of the printer, four or five were due to mistakes in spelling in contributed copy, the remainder being the misspelling of simple words either due to the slips of the typewriter or of the linotype man. For these, however, we are willing to take the blame. We were much obliged, however, for the above contribution as not more than half of the errors that he pointed out were

known to us five minutes after the paper was off of the press and also for his information that he had heard considerable criticism because of errors of this kind in the last two issues.

This last was really news to us as we had not heard any "music" of this nature since about three or four weeks ago when the printer committed the unpardonable offense of removing the wrong line in making a correction of the account of a trip of a certain one of our instructors. This was one day forcibly presented to our ears, and not in the kindly spirit of helpful criticism that one would naturally expect from a man in this position.

This criticism coming repeatedly when we were putting forth all possible effort to correct this fault, without devoting an overamount of time to the work, and yet following out our plan to incorporate only such matter that was of interest to our readers and which as far as possible was the handiwork of the students, we felt called upon to cast about for that with which to defend ourselves. This led to a perusal of a few scientific productions with interesting results.

One publication, a bulletin of the Station, was first taken up and thirteen pages were read with the same painstaking care that we weekly peruse the proof of the Spectrum copy. Much to our surprise those same thirteen pages revealed twenty-four mistakes or errors, mostly typographical in nature, it is true, but showing the same inconsistencies that were pointed out in the Spectrum. Thinking this might be an exception we examined two of the College catalogues and found, in spite of the fact that they are annual publications gotten out at the leisure of a committee of the faculty, that we did not have to go far to find what we are looking for. Among the other publications that gave forth the evidence of error to the all suffering proof reader of the Spectrum were the "Extension," several of our text books, and a few of our best periodicals including (with apologies) that paper to which our honored President of the United States is a contributor.

These facts are simply given for the consideration of our readers and with no apology. We have a few other things that we would like to say but will leave them for another time.

#### The True Spirit.

Below is in part an expression of tribute to the University of Wisconsin for the action of Wisconsin rooters on the occasion of the Chicago-Wisconsin game that resulted in a victory for the Maroons. This tribute appeared in the Daily Maroon, the Chicago student paper, being written by a member of the Committee that drew up the big nine conference agreement.

"I ask the privilege of expressing my respect and admiration both for the University of Wisconsin team and for its student supporters. All things considered, I can recall no exhibition of College spirit more generous than the incident of manning the drag ropes and drawing our team from the

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station to the hotel. Not because it was Chicago that received the welcome, nor is there in any special virtue in this particular way of showing a liberal mind; but as spontaneous exhibition of the right sort of sportmanship, and as one of the similar occurrences connected with the game of last season, it was a sign of magnanimity far more convincing than any championship in Wisconsin's history. The treatment that our representatives received in Madison compels the acknowledgement that Wisconsin is the most conspicuous leader in substituting the athletics of gentlemen for the hospitalities in the name of sport which compromised us all before we arrived at inter-collegiate sobriety. The principle of the conference is not that student contest of physical skill and endurance should be less strenuous, but that they should be conducted with a temper and in an atmosphere that promotes the mutual good feeling of the contestants. The Wisconsin men have adopted

this principle so sincerely that their standard of courtesy is as impressive as is their reputation of prowess."

A glance over our exchanges would convince one that Wisconsin is not the only pioneer in this movement, other instances as replete with courtesy as this, though perhaps not as numerous, are in occasional evidence. It is, we believe, the spirit that should be fostered here in North Dakota. It is true that our state institutions are in a sense rivals, but this is no reason why they should be enemies. The athletic situation in North Dakota as yet remains unsolved. The newspapers of Fargo and Grand Forks believe that they have solved it and perhaps they have, in theory, but it yet remains for each institution to find those broad minded men such, as drew up the conference agreement, spoken of above, to meet together and draw up one suited to the peculiar conditions of our North Dakota Colleges and our Universities.

We believe in football and inter-college sport. What can we do for the advancement of intercollegiate athletics in North Dakota. One thing that every student can do, is, to in every word and action try to create such a spirit of rivalry that animated those spoken of above. This much will go a long way toward accomplishing the result.

#### DEBATE COMING.

The annual inter-society debate, which is slated for Dec. 15, promises, from the way in which the contestants are taking a hold of the matter, to be one of the hardest fought debates ever held at the institution. The rival forces have been gathering data from far and wide and there is promise of a contest that will be worth hearing.

When Mr. Yerrington sings for the Agricultural Club he needs at least two accompanists.

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**Societies**

**Philomathian.**  
 Friday evening at the regular program in the absence of the executive officers, the meeting was called to order by Secretary Stapleton. The program as rendered was excellent. The first paper upon the life of James Whitcomb Riley, by Miss Emma Hall, was an interesting narration of the life of the author. Modern Dormitory history was especially interesting to the gentlemen present. Elsie Pelisier was the author of this. A good reading by Lloyd Worst and an original story by Ruth Aiken completed the literary program. Miss Lillian Pearson closed with a piano solo.

**Athenian Literary Society.**  
 The Athenian Literary Society met in the Society room Dec. 4, at 8 o'clock. The first number on the program was a selection by the quartette, consisting of Misses Grest and Evans, and Messrs. Babcock and C. Yerrington. Peter Olson gave an oration which was written in good style and well delivered. "My First Impressions of the Dormitory," by Inez Herron was amusing and interesting. Charles Michels gave a short talk on "Some Present Needs of the A. C.," A declamation, "College Oil Cans," by Faye Preston, was well received. Mr. Walter W. R. May of the Fargo Daily News spoke to the society upon "Journalism," in a most pleasing and acceptable manner. The society very much appreciate Mr. May's kindness in appearing before them. The closing number was a solo by Amos Ewen.

A business meeting was held after the program and the following officers were elected:  
 President—Margaret Magile.  
 Vice President—Wm. Mercer.  
 Secretary—Howard Darling.  
 Critic—Edwin Traynor.  
 Sergeant-at-Arms—Ray Towle.

**Agricultural Club.**  
 The meeting of the Agricultural Club Saturday evening was an unusually interesting one. "Fruit for North Dakota" was the title of a very good paper read by Walter Peterson. In this paper he discussed the different varieties of fruit that can be grown in North Dakota, and the methods of cultivation. C. M. Yerrington then gave a vocal solo that was very much enjoyed. This was followed by an excellent address by C. H. Baily on the methods of grading and inspecting of grain in the terminal markets of Minnesota. Mr. Baily brought out some points that should prove of value to the shippers of grain.

The program for the next meeting, Saturday, Dec. 12, is as follows:

Report of the meeting of the American Federation of Agricultural Students at Chicago—Burke Critchfield.  
 Address—Professor Arvold.  
 Music.  
 Poultry Management — Wm. Maxwell.  
 Stock Judging Contest at Chicago—C. H. Plath.  
 Critic—W. H. Mercer.

**Y. M. C. A.**  
 At the Y. M. C. A. meeting Wednesday afternoon the students were favored with an address by Mr. Goodrich of the city Y. M. C. A., who chose as his subject, "Jesus, the Man." He brought out in a striking manner how much Jesus had in common with other men, not only of His time but at the present day. In conclusion he urged that a spirit of brotherhood be maintained in every day life as the most efficient means of combating the evils of the present day. The address was very interesting and was greatly enjoyed by all present.

**Mission Study.**  
 The Y. W. C. A. Mission Study class met Wednesday evening, Dec. 2. A large number of girls were present and much was learned of the social conditions of China.

**Y. M. C. A. Folder.**  
 The Young Men's Christian Association of the College issued a neat folder containing a partial statement of the work of the Association for the year. Its contents speak well for the Association and show that excellent progress has been made during the term. The folder speaks for itself and is available to all who wish for it.

**Teachers' Club.**  
 The Teachers' Club will meet in the College Chapel, Friday Dec. 11. The following program will be rendered:  
 Instrumental Solo—Esther Evans.  
 "Nature"—Prof. J. G. Halland.  
 Vocal Solo—Edythe Flewell.  
 "Some Present Day Problems"—Peter Olson.  
 Locals—Bessie McKee.  
 Song—Yellow and Green.  
 Criticisms—Ole Neraal.

**N. D. A. C. L. E.**  
**Friday, Dec. 11.**  
 How Our Forests Are Destroyed—Paul Funderhide.  
 Timber Preservation—H. B. Darling.  
 Address—A. G. O'Shea.  
 All engineers are urged to be present.

**Good Time.**  
 An informal party that even The Spectrum reporters came near missing was held at Francis Hall last Friday evening. A pleasant time was had by all present, and extemporaneous refreshments.

Don't nail your friends to the wall; get some netting at the bookstore.

**FARM HUSBANDRY MEN ADOPT UNIFORM PIN**  
 A meeting of all the Farm Husbandry men was held yesterday noon to decide on a question which originated at the Senior Farm Husbandry meeting Saturday. Hitherto each senior class has decided on the design of their class pins independent of former decisions in that line. It is now proposed that a permanent design be adopted so that all Farm Husbandry Alumni will wear similar pins. The pin decided upon will have the form of a sheaf of wheat on which will be a shield. The shield will be in the class colors, and will bear the class numerals. Colors

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**COMPANY A TO DRILL FOUR TIMES A WEEK**  
 The drill days of Company A have been changed from three to four days a week. Guard mount will take place on Fridays.

**Gallery Practice Friday.**  
 The first gallery practice of the year took place last Friday afternoon. There were no brilliant scores made, as it was the first time the Cadets had used the rifles, and the light was rather poor.

The free-hand drawing studio was so cold last Monday that the class was dismissed early in the afternoon. It is rumored, however, that the Coach appeared as soon as the class was gone and he-

riocally endured the frigid climate for nearly two hours.

A humorous incident in the faculty games at indoor baseball of last week was Cal Hennis (catcher) looking about in the air for the ball and allowing three men to run in when all of the time the ball lay at his feet.  
 The male quartette, of which Professor McArdle is the leader, received many favorable comments on their first appearance at the entertainment at the Broadway M. E. church last week.

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## Immunitization of Hogs From Cholera

Dr. Van Es Submits Confirmation of Claims of Bureau of Animal Industry

### SUCCESS ON COLLEGE HERD

Submits in Detail Results and Methods To the Live Stock Sanitary Board.

One of the triumphs of American Science of recent date was the perfection of a method of immunitization of hogs from the disease of cholera which so often has swept over various sections of the country occasioning in many cases an almost total loss among the herds of the hog raisers. During the month of July of last summer at the invitation of the Secretary of Agriculture Dr. Van Es attended a meeting at which the men from many states participated in which this discovery or invention of Drs. Dorset, McBride, and Niles of the Bureau of Animal Industry was made public and opportunities were afforded for an exhaustive study of the method and technique involved.

The inventors had, before making their discovery public, made exhaustive tests in of Iowa during several outbreaks of the cholera and the result was such as to warrant the placing of the results of their labor at the disposal of the swine raisers of the country.

#### The Process.

Essentially the method consists in rendering the animals passively immune by the injection of an antitoxic serum, and while the animal is thus protected, to make this immunity active by exposing the animal to a natural infection or by injecting it with a small quantity of virulent blood.

Dr. Van Es returned from Iowa thoroughly convinced of the practical value of the method. Consequently on his return he immediately took steps for the manufacture of the serum necessary for the immunization. This was timely for hardly had he began when there was an outbreak of the cholera in the state among the herds that had been on exhibition at the various fairs, in which the

College herd of about seventyfive were subject to the same exposure. The result was that the Doctor was immediately called upon for large amounts of the "serum", larger in fact than he was able to supply. It however afforded ample opportunity for the retesting of the efficacy of the method. The returns and reports from this work is as yet very incomplete but the results of the work on the College herd is given in full with the methods employed in a report that has been submitted by Dr. Van Es as Bacteriologist and consulting Veterinarian to the Live Stock Sanitary Board for approval after which it will be published in the annual report of that same board.

It is this report that the Doctor has kindly loaned to the Spectrum and we will endeavor to briefly outline the methods employed as well as the report upon the work with the College herd.

#### Methods

The first step consists of the immunization of the hogs that are later to furnish the protective blood serum to be used by the breeders in immunizing their herds. This is done by the simultaneous injection of a quantity of protective serum previously obtained and some virulent blood. This renders these hogs immune.

At the same time a certain number of the animals were injected with the virulent blood in order to produce cholera sick animals the blood of which is necessary for what is known as the hyper-immunization of immune animals.

By hyper-immunization is meant the injection of as much as ten c. c. of the virulent blood for every pound of the body weight. This may be done by one operation or by a slower method in which the amount injected beneath the skin of the animal is repeated, beginning with small doses.

After five or ten days the animals treated in this manner become hyper-immune and their blood then possesses the power of conferring passive immunity. This blood is drawn from the animal by the cutting off of a piece of the animal's tail under sterile conditions and as the blood spurts out it is caught in pans. About four or five hundred c. c. can be drawn from one animal at periods of one week. This blood is allowed to coagulate, is filtered, and

preserved by the use of an antiseptic. It is then bottled and stowed away in an ice chest until wanted.

#### Immunizing.

When hogs are to be immunized against cholera this hyper-immune blood serum is injected under the skin on the inner thigh in doses of 20 c. c. for hogs weighing 50 to 130 pounds, in doses of 40 c. c. for hogs weighing 150 to 300 pounds. When these hogs have been exposed to natural infection one injection is sufficient. If, however, there is no exposure or where the exposure is questionable it is necessary to inject 2 c. c. of the blood containing the virulent bacillus at the same time in order to obtain active immunity. In our experience it has proven to have been of great importance, especially when working with herds in which the disease has just made its appearance.

#### College Herd

The first outbreak in the College herd last summer was upon August twenty-fourth. The case was looked upon with suspicion from the first as the disease was then abroad in the neighborhood and about ten days later the sickness and death of two animals confirmed the presence of the disease infection. As soon as possible serum was obtained and all of the animals in the hog lots were injected with the exception of five and a litter of pigs only a few weeks old.

The injection was followed in a few cases by some local swelling and stiffness, but with two exceptions these were transitory in character. One of these developed gangrene from secondary accidental infection and the other was a hog of general unthriftiness.

In immunizing this herd only the serum was used, it being taken for granted that all of the animals had been exposed to the disease from natural infection.

Much disappointment resulted when two of the hogs that had been injected took sick and died and the autopsy revealed typical lesions of cholera. A thorough study of the problem revealed that it was very probable that all of the animals had been exposed to the disease and so to insure from further loss all of the animals were at once injected with 2 c. c. of the virulent blood to produce active immunity.

After this one more of the animals took sick and was destroyed, revealing a case of cholera. Two more of the hogs sickened later but the cases were apparently light and they soon recovered.

Of the check pigs none are left. All were examined with the exception of one after death and showed the typical cholera lesions.

To sum up the results we find: After the introduction of infection seventy-four animals were injected. Of those animals one died from accidental infection and three from cholera. This makes a total of three deaths from cholera in the seventy four injected animals and it is our opinion that even this loss could have been prevented by using the simultaneous virus serum injection in the first place instead of depending upon natural exposure for infection.

#### Advice to Breeders.

From our experience it would seem advisable to practice the simultaneous virus injection in all herds in which infection has not already been introduced and also in those where immunization is undertaken at the beginning of the outbreak in which only a limited number of cases have occurred.

Our results with the College herd clearly bear out the claims of the Bureau of Animal Industry, that in this method we have a very efficient method of checking the disease.

The question may be asked: How can the serum be used to protect our swine growers against cholera?

In answering this question we consider it unnecessary that all of the hogs be immunized promiscuously, when no infection is in the country. The time may come when this will be possible, but our present facilities for the manufacture of the serum are inadequate for the demand to be expected in such a case.

Breeders who take their stock to swine shows, fairs, sales, etc., however, should have their swine immunized.

When outbreaks of cholera occur, the Live Stock Sanitary Board should at once be advised and this board should then immediately begin to immunize the hogs around the primary focus of infection. The immunization in such cases should be done by the simultaneous method and while this is done all hogs showing evidence of cholera, should be immediately burned or destroyed. By the above method the danger of having infection carried out of the zone by the intermediary bearers may be reduced to a minimum.

Dr. Van Es is confident that if such measures be promptly taken the danger from hog cholera can be reduced to insignificant proportions.

#### Further Investigation.

While the method as worked out by the bureau is very practical there are some phases which should be studied with a view to reducing the cost of the serum and eliminating the possible danger from secondary infection from the use of the virus. Experiments in this line are now actually under way at the local laboratories and will be tried out during the spring months when opportunity presents itself.

The College of Agriculture of Wisconsin will cooperate with the two Agricultural high schools of the state in establishing an Annual Farmers' Course that will be held one week at each of the schools in February.

The Wisconsin directory show an increase of ten per cent in the number of instructors and of only 7 per cent increase in the number of students.

Illinois University went through the ordeal of electing their football manager last week. They aren't the only ones that have that distinction.

The Yellow Jacket, the successor to the Georgia Tech, has come to our exchange table once more. It is a good magazine but if it were not for the review of the football season we would hardly recognise it as a College paper.

Minnesota is to have two comic papers. The Minne-ha-ha the old joke Magazine now has a rival in the form of the "Bow and Arrow".

"First a signal, then a thud, Then your face is in the mud, Someone's jumping on you back, Then your ribs begin to crack, Hear a whistle blown, that's all. It's lots of fun to play football."—Ex.

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**PERSONAL**  
The Athenian debaters invaded the Fargo College library last Friday.  
Agnes Peterson has lately joined the Spectrum staff as a reporter.  
We notice Dr. Abbott scheduled for the course in Chemistry for next term.

Roy Corbett, a former student and captain in the Cadets, was a visitor at dress parade Wednesday.

Rex Willard writes from Monterey, Mex., and states that he has attended a real bull fight.

Arthur Dittmer, a former student who died school because of his health, died a short time ago of consumption.

Oscar Dahlgren has an assistant in the form of a two wheeled truck which arrived at the laboratory last week.

Professor Arvold is busy these days generating spirit in the literary societies.

Ernest Hill blossomed out in a resplendent new uniform Wednesday when he assumed his duties as First Lieutenant of Co. A.

Mr. Nagley left for Grand Forks the latter part of last week where he will spend some time at the University.

The schedule for the winter term was posted yesterday, thanks to Register Parrott's writing devotion last Sunday.

Ben Otten has returned to school and is now a welcome addition to the Band.

Professor and Mrs. Keene are the happy parents of a baby girl born to them last Friday evening.

Mr. Folsom attended the Live Stock Show at Chicago and later visited the College. He will return to school next term.

Professors Arvold and Slocum and Coach Magoffin are furnishing the Spectrum with the daily papers of their Alma Maters.

Allen Clark and C. S. Hooper are among the students that returned from Chicago last week.

The Coach waited an hour at the College corner for Jerry and then when the long-looked-for did arrive she had another fellow.

Professor and Mrs. Bolley have a very nice boy at their home which they obtained from the Children's Home and which they expect to adopt.

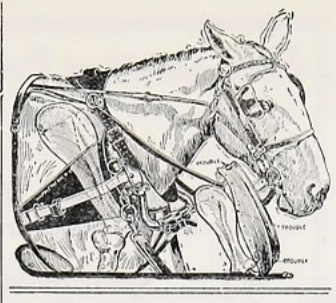
Messrs. Lewis and Amerland of the City Council were visitors at the Polytechnic Society last Wednesday evening to hear Professor Slocum's talk on Water Filtration.

Dr. Darrow, Superintendent Hoover, Attorney Richardson, Coach Kambach, and Messrs. Brewer and Martineau were guests at the football banquet last Saturday evening.

Jacob Dawson and Lyle E. Cook are two new students that have come to take advantage of the facilities offered in manual training. They were formerly at the Manual Training School at Ellendale.

Harold Dudrey was one of the engineers that took advantage of the rates to Chicago last week and spent some time visiting the windy city.

Messrs. W. B. Snyder, instructor in the School of Mines at the University at Grand Forks, and H. O. Buckman, Assistant Agronomist in the Montana Agricultural College, were pleasant visitors at the College last week. Mr. Buckman is very much interested in dry farming and called to consult some of the faculty members in regard to this subject.



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MUSIC EVENINGS BY THE RINK ORCHESTRA.

Professor Richards has received an excellent offer from the Manitoba Agricultural College as Professor of Animal Husbandry. It is not known whether he will accept this position or not.

Professor Beckwith will speak at the next meeting of the Polytech. on "Water Filtration From a Bacteriological Standpoint." This is a continuation of the talk given by Professor Slocum at the last meeting in which he discussed "Water Filtration From the Engineer's Standpoint."

Grant Morton, who has been attending the Denaturalized Alcohol School at Washington for some time, returned to the College last week. He remained at the College only a short time, when he left for Cooperstown and other points in the northern part of the state.

**Initial Issue of The Spectrum Twelve Years Ago.**

Miss Sen has a large class in Domestic Science.

Dr. Hinebaugh is reviving gastronomic memories through the medium of two whole barrels of cider from his "Sweet Home."

A Mandolin Club has been organized by the Students.

The Athenian Literary Society elected officers for the next six weeks. Those elected are as follows: President, C. E. Lee; Vice President, E. E. Schollander; Secretary, Maud Bottenfield; Treasurer, Annie Small; Sergeant at Arms, Peter Nordby.

The gas machine at the green house which has been undergoing repair for some time is now working in good order. It has caused much inconvenience to students in the Chemical Laboratory.

The new Physical Laboratory is almost completed and will be in use next term. This addition is quite an improvement to the institution. (This Laboratory was in the Mechanical Building and is now part of the Carpenter shop, the grinding corner.

By the looks of the Campus one would imagine that all of the imps of the lower region had been engaged night and day for the past two months with their shovels piling up snow.

A short time ago some of the students were imbued with the desire to taste some of the apples in the cellar of the Dormitory. (Francis Hal). All "scraps" of this nature came to grief sooner or later as the participants in this affair found when they came to pay double for the apples.

The fall term closes Dec. 24th for the holidays. Winter term begins Jan. 5th, 1897, with the prospect of having the largest enrollment in the history of the College

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**PROFESSOR LADD'S BULLETINS DELAYED**  
Dean Ladd is having a great deal of trouble with Bulletin 81, but has not given up hope of getting it yet. He sent the bulletin to Lisbon sometime ago to be printed, but a long delay ensued before the printers procured the paper. At length the paper was at hand and the printing done, but by mistake the bulletins were shipped to Grand Forks. It is expected that the wanderers will be rounded up this week so they may be distributed.

**An Error Corrected.**  
Last week there appeared an article in The Spectrum stating that Dr. Putnam received three "Carl Fisher" clarinets for the band. These instruments were not of the Fisher make, but were the genuine "Buffet" instruments, which cost about \$25 more than the "Carl Fisher" make. Those who received the instruments were Messrs. Olson, Morice, and Lewis. Mr. Lewis is not at school at present, but will return in January.

**Second Band.**  
The busiest place on the campus between 4:45 and 6 in the afternoons is the Music Hall. The Second Band practices on Monday, Tuesday, Thursday and Friday at this hour. With "Doc" watching one section, Chief Musician Mainwaring the trombone section, Principal Musician Wallen the cornet section, and Mr. Adams at the horn section, there is not a second lost. Last Thursday they took up a new piece of music and inside of three-quarters of an hour were able to play it quite well.

**Orchestra Numbers Sixteen.**  
The orchestra now numbers sixteen and is starting with fine prospects. Some more violin players are needed and there is a good opening for anyone wishing to join. The rehearsals are held every Wednesday afternoon immediately after dress parade.

**Dr. Putnam Director.**  
Doctor Putnam has been chosen director of music for the Men's Club of the Presbyterian church. A new choir has been organized to sing on Sunday evenings. A large number of the faculty and students take part in this work.



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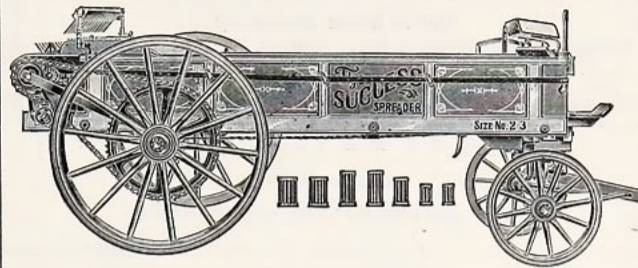
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**SUMPTUOUS BANQUET FOR FOOT BALL MEN**  
(Continued from Page 1.)

es of play, it can be seen that we must withhold judgment for another year before giving verdict of what the team can do. What we have lost in the way of games we have gained in our reputation for clean and true sportsmanship.

Dr. E. M. Darrow's toast upon "The Ladies", was the food for much merriment. There were no dull moments when he was upon the floor.

Captain Robert Millre of the second team followed telling of the experience of being the leader of the warriors that fought "between the devil and the deep blue sea." The Sea he said was the First Team and the Devil was Coach Magoffin.

Superintendent Hoover in his toast upon the "Ideal Football Man," gave his version on the subject. The Ideal football man and the ideal man are not much different. He told some experiences that he had with his high school teams that brought manly memories of similar events to those present.

Professor J. G. Halland who has so successfully steered the financial end of the game during the past season told of the trials of the man that had to be very-where, got the blame for everything that went wrong and the

credit for nothing; but he said in spite of all the trials and unpleasant things there is something in the association with sturdy young manhood that is both a pleasure and an education.

"Reminiscences" was the subject that Mr. Chas Brewer of the Fargo Forum was called upon to respond to. He told of the days when there were not enough students in the College to make a full team and it was necessary to fill up with members of the faculty and occasionally a farm hand; also telling of the A. C.'s success and failures down through the years.

The closing toast was by President Worst upon "The A. C." "We have now," he said, "reached the point where we have an ever incoming army of students that will place the A. C. far up in the football world. The game lost with Fargo College probably did more for football at the A. C. and in Fargo than would a victory. I would rather we would be defeated by near-by teams than bring a team from three hundred miles away and win a victory for which nobody cares." He urged that we be ever careful to protect our honor and our title to clean sportsmanship.

Closing with gracious words of praise to Miss McCarty and the girls who prepared the banquet, Professor Dolve dismissed the banqueters who dispersed with a heartily "Dako-tah."

**DEAN SHEPPARD RETURNS FROM THE EAST**

Dean Sheppard arrived home Thursday evening from his visit to Washington and the International Live Stock Show at Chicago.

At Chicago the Dean had charge of the Student's Judging Contest at the International Live Stock Show. William Lanxon, '09, was his chief assistant and helped to select the rings and figure out the results. The contest proved to be the most satisfactory one ever con-

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ducted at the show and everybody seemed to think that they had had a square deal. There were about thirty boys from the College who took advantage of the opportunity to see this show.

While at Chicago Professor Sheppard and his party met Daniel Glomset who is a former student of this institution and is now taking up a medical course at the University of Chicago. Mr. Glomset took his North Dakota friends over to the Chapel Sunday and showed them the field museum

The Freshmen had to criticize each other's themes last week and now half of the class won't speak to the other half

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**SENIOR FARM HUSBANDRY CLASS HELD A MEETING**

The Senior Farm Husbandry class held a meeting last Saturday to select class colors and pins. The colors decided upon were red and green.