

THE WEEKLY SPECTRUM.

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VOL. 15. Number 14.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY JANUARY 12th, 1909.

PRICE 5 CENTS.

Season Opens With Easy Game for A.C.

Capt. Darrow, Stars—Team Work is What the A. C. Men Need Now.

VALLEY CITY NORMAL HERE NEXT.

Saturday Will be the Occasion of Two Big Games.—Both Girls and Boys.

Last Saturday evening was played the opening game of the A. C. basket ball season which resulted in a decisive victory for the A. C. boys over those of the Moorhead Normal. The individual playing of the A. C. men clearly excelled that of the Normal players but the critics seemed to be one in the opinion that the team work of the Normal was far superior. Their inability to shoot baskets was a drawback, however, that they couldn't get around, and the score ended 45 to 12. The game showed that the A. C. has plenty of good material this year but that training and some good hard practice for the development of team work will be necessary for the development of a winning team.

Captain "Red" Darrow played a great game at right forward and seems to have regained his old time skill in shooting baskets. During the first half Clark played

a good game at forward. In the second half the men were shifted and several of the subs were put in. Of these Dolve at forward and Wheeler at center were the most promising. The playing of the subs revealed the fact that there was some keene competition for the places on the team and that it would be hard to predict a line-up for the male quint for the season at this time.

Owing to the fact that the team from Hillsboro which was to have played with the A. C. girls had thrown up the contract the game did not come off as scheduled but the A. C. girls were pitted against a "pick up" team of experienced players. This game resulted in a victory for the A. C. by a score of 28 to 2. In this game Ex-Capt. ain Heidner at center was the consistent mainstay of the team. Misses Doleshy and McKee, forwards, and Miss Stafford, guard, did excellent work. On the other team Miss Corbett showed up prominently.

The teams lined up as follows:



'08 BOYS BASKET BALL TEAM.

In suits from right to left: F. Darrow, Hofus, Kent Darrow, Ueland, Anderson, and A. Clark. Of these Ueland and Hofus only are absent.



KENT DARROW, '09.

Recently Elected Captain of the '09 Basket Ball Team.

MANAGER'S STATEMENT.

Of Interest to all Students Registered.

Believing that it is the aim of every person, registering for work in our school, to become better acquainted with the college world and its activities, and having neither the time nor the patience to call on each individual and convince him of that which he should already know, namely that he needs the Spectrum and the Spectrum needs his support (financially as well as otherwise). I have placed every student, registering in the Spectrum mailing list and every one will receive a copy of the first two issues for this term. By that time you should know whether you want to become one of us, and pay your subscription, or stay on the outside and tell me to pull your name from my list.

After the first two issues I shall revise the mailing list and shall consider every one a subscriber who has taken the two papers from the postoffice and has not notified me that he does not care to subscribe.

The subscription price is fifty cents a term or seventy-five cents for the winter and spring terms.

S. V. ANDERSON, Mgr.

Girls.
All Stars— A. C.—
Magill C Heidner
Corlett R G Stafford
Ellis L G Kerr
Simonson R F Doleshy
Nelson L F McKee
Substitutes—All Stars Miller If.

Boys.
Moorhead— A. C.—
Burke C McKee
Weld R F Clark
Berg R G Haskins
Trost L G F. Darrow

Following the game the management of the Athletic Association escorted the players of the four teams to Francis Hall where the partook of a banquet and love feast which had been prepared for them.

Next Game.

While not yet definitely decided the next game will undoubtedly be played next Saturday night and will be a double header with the Valley City Normal. Don't forget that the presentation of

your registration card is necessary for admission to the game.

Victory for Ladd Over the Millers

Says Police Powers of State Sufficient to Protect Public Health.

Yesterday Judge Pollock of the District Court handed down his decision in the "Bleached" Flour case.

Russell Miller Milling Company, Plaintiff vs. Commissioner E. F. Ladd, defendant. This decision is unfavorable to the bleached flour which is barred from North Dakota as a violation of the Pure Food Law. Owing to the conflict of the testimony of high authorities much that was presented was

thrown out as unconvincing in forming the verdict.

The admission of the Millers that nitrites which are illegal under the pure food laws, are present in flour, was fatal to their case. Their contention that all nitrites expelled in baking process was not considered, as the product to be dealt with was flour. The cumulative antiseptic effect of the nitrates even in small quantities may be serious.

In the opinion of the court the millers were not proven to have used the Alsop process for purpose of mixing durum or cheaper wheats—but possibilities are great. Owing to conflicts of testimony experiments with animals could not be considered. Costs of the case were attached to plaintiff. The decision in effect agrees with that of national authorities.

The recent cold snap was a kind of a test on the new green houses but they withstood it nobly.



'03 GIRL'S TEAM.

Girls from right to left are: Doleshy, Ellis, Thomson, Heidner, McKee, Magill, Locke, and Larson. Of these Doleshy, Heidner, McKee, and Magill are in the squad this year.



'08 ENGINEERS TEAM.

These men won the Interdepartments Championship last year. This fast team has turned out in a body to try for the College team. In suits from right to left is: Thien, Drummond, White, Wheeler, McFie and Worst.

BECKWITH ON METHODS OF WATER FILTRATION

Fargo Should Install a Filtration Plant Death Rate Would Be Reduced.

At the last meeting of the Polytechnic Society Professor Beckwith continued the subject of water filtration which was begun by Professor Slocum at the preceding meeting. His paper dealt with the bacteriological phase of the question which is by far the most essential thing to be considered in water filtration.

In the opening part of his paper Professor Beckwith briefly outlined the other methods of water purification, which may be grouped under the headings of impounding reservoir, use of cooper salts, and the use of ozone. These three methods purify the water by removing the bacteria but act in a much different way from that of the filter.

Following this he gave a somewhat detailed discussion of the two types of filters, the gravity and the mechanical, paying special attention to the latter as this is the most rapid filter and more nearly adapted to the general conditions and especially of Fargo.

"The old style filters consisted of about four feet of fine sand layed on top of gravel. The water then forces its way down through the upper layer of sand and is collected by a system of porous tubes at the bottom of the reservoir. As it works its way down through the sand under proper conditions it is much purified. This style of filter is what is known as the gravity filter, but no matter how fine the sand, the interstices between the grains, will be larger than the size of the bacillus, consequently bacteria will force their way down through the sand layers unless some additional agency be employed. The efficiency of the gravity filter depends on the fact that bacteria are used to remove the bacteria. As the water passes down through the porous layers of the sand some of the bacteria are caught. These grow, producing in the upper layers of the sand a fine gelatinous mass to which the general technical name of Zooglea is applied. This thin mass, then, growing in and upon the upper layers of sand is the filtering agency in the gravity filter.

"The next subject to be considered is the bacterial purification as it occurs in the so-called mechanical filter. The action of the mechanical filter depends on the action of certain chemical substances which are naturally in solution in all natural waters. These substances are what are known as

the alkalinity and permanent hardness, and are made up of salts of sodium, potassium, calcium, and magnesium in form of carbonates, chlorides, and sulphates. If, now, we add a slight amount of some coagulant, as aluminum sulphate, iron sulphate, or a copper sulphate to this water there will be precipitated out a flocculent mass of these metals. If then, this water be passed through a comparatively shallow filter these gelatinous flocculent particles will be intercepted on the sand, having an artificial gelatinous coating formed which will act in exactly the same manner as the bacterial covering of the gravity filter. The amount of coagulant to be added is from one to one and one half grains per gallon of water, and if this be properly carried out under expert supervision there will be absolutely no mineral left in the water because of the fact that part of the hardness in the water has combined with these metallic compounds to form this flocculent mass which is not soluble in water."

In some figures which Professor Beckwith gave in regard to the affect of the use of filtered water on the health of the inhabitants of some of our eastern cities he showed that there was a marked decrease in the number of cases of typhoid and other water borne diseases.

"All these facts make it appear most advisable that Fargo adopt, and that at the earliest possible moment, a good method of filtration for its water supply. Our death rate from typhoid fever and water borne diseases may easily be reduced to seventy-five per cent and it is fair to say that every death from a preventable disease costs the community in the wage earning value of that citizen at least \$10,000. Such a figure is based upon life insurance computation. It may be readily seen of what worth an efficient filter system would be to Fargo, and it also can readily be seen that the cost of installing such a system, reckoned in the value of lives saved, would be repaid in less than a year

The machine shop got no rest during the vacation. Several of the engineers kept the irons hot finishing up back work or getting a running start for the coming term.

One branch of the industrial world, at least, should rejoice at the present "bleached flour" decision. That is the owners of the talc mines and the manufacturers of pure cosmetics.

MANY DEPARTMENTS ARE FULL TO BRIM

Schedule Classes Tests Facilities of Several of the Departments.

Professor Halland has been forced to pack his Prep history class in two layers this term.

Owing to the fact, that nearly one hundred students have registered in the short course in breeds, breeding, and feeding the class may have to be carried in two sections.

The Department of Mathematics is having considerable trouble in arranging their courses. The number registered is far in excess of the usual number, but by having classes at all hours of the day they manage to get along.

The Engineering Department has been forced to say "Good-bye" to its Electric Laboratory. The English Department was sadly in need of a room. The Engineering Laboratory is a swarm of life and the instructors are on the go throughout the day. Mr. Gunness, '07, is again in charge and is assisted by M. B. Erickson, '10.

Two new pianos of beautiful design have been added to those in the music hall for the accommodation of the piano students this term, and even with this equipment it is expected that there will be some difficulty in accommodating all.

INSTITUTE ANNUAL NOW Ready for Distribution.

The Farmers' Institute Annual number eight is completed and is now ready for distribution. This publication is edited by T. A. Hovestad, Superintendent of Farmers' Institute, and contains some very good papers by various members of our faculty and others who were on the institute platform last year. These papers and addresses cover practically every phase of agriculture in North Dakota and treat with it in such a manner as to be both practical to the average farmer and interesting to the general reader.

There has been fifteen thousand copies of this pamphlet published so that every person wishing a copy may have one. The demand for these annuals is very great at the Interstate Grain Grower's Convention which is held in Fargo every January, which shows that the farmers and others attending these meetings take a deep interest in the work of the institutes.

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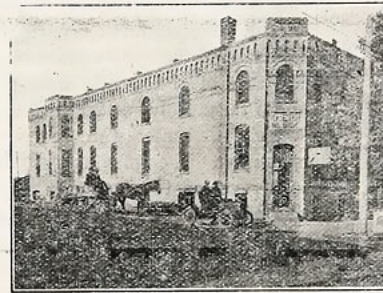
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THE ENGINEER AND HIS PANTS.

(Dean E. S. Keene.)

You can always tell a chemist by the smell that he makes;
You know a pharmacist at a glance;
You can always tell and Aggie by the step that he takes,
But you tell an engineer by his pants.

You can tell and Alpha Muer by the smoke that he makes;
Likewise you know a senior if by chance
You meet him in the morning with a pipe, his face adorning,
But you "pipe" the engineer from his pants.

You can always tell a freshie by the noise that he makes;
You can hear the prepling coming in advance
With a most infernal bellow that predicts a noisy fellow.
When you hear an engineer, it's his pants.

You can always tell a junior by the trouble that he makes;
The annual may be the cause, perchance.
The soph's a cunning fellow—in math, a trifle yellow.
All the yellow on the engineer's his pants.

You can tell an Athenian by the spark that he makes.
The Philo shines expressly at a dance;
But when it comes to glitter, the engineer's no quitter;
He does a lot of shining with his pants.

The Coach office is getting quite homelike. A piano is the latest addition all that is missing now is a cozy corner.
New Student to Erickson, "Are you taking gas?"
Erickson: "No, I am making it."

PUBLIC OPINION

ATHLETICS.

At this time, when we are entering upon another year of athletics it is well to give a general resume of the past year which was to say the least a very successful and satisfactory one.

Under the direction of an efficient corps of officers the Athletic Association has prospered. Thanks to the hard and earnest endeavors of Manager Halland the association has cleared up the one thousand dollars indebtedness that it possessed at the beginning of last year, and is now on a firm and solid footing for the future.

Our several athletic teams, while not champions for the past year, yet possess good and honest records such as any institution could feel proud of. The greatest victory, however, has been in the building up of all departments of athletics which in the past had been neglected in part or in main. The standard of all of these departments have been raised and are being placed upon a firm basis and will raise further or remain upon this plane.

With few exceptions the officers of the association for the coming year are the same as last. Prof. Dynes has assumed the management of the association, and we have full confidence in his ability to fill this important position. Of the other new men among the officers Darling is vice president and Anderson is on the board of control.

In a legislative way, too, many improvements have been made for the better, and for the future we can only say that the outlook is bright, and indications are that one year from now will tell of another successful year past. — An Athlete.

To Professor Halland:

Dear Professor and Manager,— It has been moved, seconded and carried by the members of the North Dakota Agricultural College Athletic Association, assembled in Chapel hall, that we, to show our appreciation of the time you have given, for the effort you have made and the great work that you have accomplished in behalf of our association, and the student body as a whole, in bringing our athletics to their present

high standard, we extend you our most grateful vote of thanks.

(Signed.) ARTHUR MURPHY,
Secretary.
LEO P. NEMZEK,
President.

THE LIBRARY.

One of the best things any school can do for a man is to acquaint him with the sources of information. One of the best things about the A. C. is its splendid library with its excellent equipment and ready-at-hand information.

It is well worth one's while to get acquainted with what it has to offer—the best reference books, the latest papers, the most interesting magazines. About two hundred state papers are received each week and are placed on a special rack in the boys reading room. All the leading agricultural papers of the west are to be found on the magazine rack or in the drawers beneath it. Among these are such papers as the Breeders' Gazette, Orange Judd Farmer, Farm, Stock and Home; North Dakota Farmer, Wallace's Farmer and others equally interesting. Students interested especially in engineering will find The American Thresherman, Engineering and other leading papers covering that line of business. And if you don't see what you want, ask for

H. J. H.

LIBRARIAN'S REPORT SAYS STUDENTS READ

The number of books drawn from the library during the fall term was 1824. This does not include a very large number which have been used in the reading rooms.

Of the books drawn from the library 686 were periodicals, bound and unbound; about 333 books from the literature department; 155 history, 348 fiction; three-fourths of these being required for use in the English classes and 307 were from miscellaneous classes.

The total number of volumes added to the library during the fall term was 410. Of this number 131 were purchased, 186 newly bound periodicals, bulletins and reports of the various state experiment stations, and the remainder were government documents.

There are 220 newspapers of the state to be found in the library. These are received as exchanges for our Experiment station bulletins and reports.

Seventy-five farm papers are received as exchanges.

The list of periodicals to be found in the library number 65, including The Century Magazine, Harper's Monthly, Harper's Weekly, Outlook, Literary Digest, Scientific American, McClure, Everybody's, Review of Reviews, and Collier's Weekly, besides many others of interest.

A great many of the stories found in new books have previously been published in magazines, and may be found in the library in bound form.

GOOD WORK BY

'08 A. C. MAN

"One of the most interesting and popular features of the National Dairy Show was the students' judging contest. Nine states sent teams, and Iowa's team succeeded in capturing the first place on all breeds; Nebraska second and Minnesota third. In the judging of individual breeds New York State boys won the Holstein trophy and Minnesota was second. The Minnesota team is to be congratulated on its placing in both of the contests, as this is the first year that a team in dairy stock judging has ever been trained the work having been done in the past entirely along beef lines. At the International beef judging team of the Minnesota college were last place in the ten colleges competing."

The colleges sending judging teams to the National Dairy Show were: New York, Pennsylvania, Ohio, Kansas, Iowa, Nebraska, Minnesota, South Dakota, Texas and Missouri.—Minn. Dairyman.

The Spectrum is pleased to note also that the Minnesota representative was none other than Geo. P. Grout, '08 of the N. D. A. C.

GRATEFUL FOR THE "STORY OF THE PRAIRIES."

Washington, D. C., Jan. 3, '09.— From some cause "The Story of the Prairies" did not get to me until Christmas eve. Christmas was spent reading it, and today I read the last line and am to mail it home this morning.

I am grateful to you for writing "The Story of the Prairies," and I thank you for doing it so well. I wish other scientists would make their work or place their knowledge in so concise and so attractive a form as you do the Prairies. I fear, however, that the joy of doing it will be your chief reward.

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I wish I knew the prairies as you do. Some day I shall.

Sincerely yours,
 (Signed) ENOS A. MILLS.

Prof. Willard is the recipient of this flattering appreciation of the book of which he is the author. Mr. Mills will be remembered by a large number as the government forester who has addressed us on several occasions.

AGGIES ARE FORCED TO GO A BEGGING.

With the large influx of Short Course students the Agricultural Department is so crowded that many of the classes are held in other buildings. The class rooms in Francis Hall are all full during the forenoons and a large part of the afternoons. The classes in Breeding and Dairying are held in the chapel assembly room while the classes in Soil Physics and Breeds are held in the Mechanical Building.

Have you seen the Coach's stocking cap? It's a peach.

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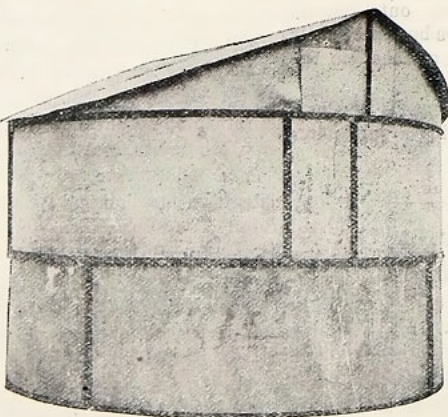


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Happy New Year.

This greeting from the Spectrum, perhaps comes a little tardy, but the spirit is there just the same. The New Year has certainly had a cold reception but cold to the average North Dakotan just adds a little spice and zest to the spirit of the winter season and doesn't interfere with his happiness in the least.

Happy New Year! How many a time have we heard that expression and why should we be happy at the beginning of a new year. Is it because we have wound up our accounts for the past year and find that we have made satisfactory progress? Or is it because we can at this time file that record away, forget our mistakes and begin over a new with resolutions to make a better record the coming year?

Whether one or the other, the effect is the same. We are beginning another year, after a glorious two weeks of vacation which has served to give us time to think, to gain inspiration by the mingling with old friends and from the participation in the festivities of the Christmas season. Whether it will be a full, rich, happy Year in fact, depends upon ourselves in a large measure. Looking back over the past year and asking has success been due to happiness, to fate, or to put it in modern parlance, to luck? Or has it been due to conscientious effort on your own part?

With the majority it has been the latter. If so, and if our happiness during the past year has been due to work and success then let us in our search for happiness in the future remember from where it comes.

Short Course Students.

To that host of young men and women who are with us for the short courses we extend a hearty greeting of welcome. The short courses, and the short course students have come to be recognized

as an integral part of our College. In the past, and we believe that it will be the same in the future, we have found that the students as a whole, who take advantage of our short courses, were to be classed among our most loyal and earnest. Being men and women who with limited time and means at their disposal have come here with a purpose and a determination to adhere to that purpose.

The short courses have been condemned by the unthinking, largely because of their brevity. The time is short, it is true, but let us look at them from a different view point. Many who will condemn the short courses will laud the work of the Farmers' Institutes. The Farmers' Institute is a school for farmers lasting for only a day. The winter Short course is an institute for young men and women just entering upon their work of life but lasting for a period of three months. The Institute workers are specialists in the subject upon which they lecture; the laboratories are a special feature where the attendants learn not only to know, but to do.

The attendance of students at the first basket ball game was what it should be. The plan adopted last fall for the admittance of all students into athletic contests for no other charge than the payment of an incidental fee of fifty cents works hardship to no one and has the effect of making the students feel that athletics belonged to them. Never before in the history of the institution has it been possible to obtain anything like a representative turnout of students to games and especially to minor ones of this nature. Note the change. That the plan was a wise one, there is no doubt; its effect will be far reaching and its fruit will be found in an increased loyalty and love for the old A. C.

The rooters didn't find much in the game last Saturday night to get enthusiastic about but indulged in a little practice that will come in handy in the coming games.

Happiness and health seem to bear a pretty close relation to each other and in the search for the former don't neglect the latter.

PUBLIC OPINION

Skating Rink?

"Where is the Skating Rink?" Since our reappearance at school for this term this question has been asked repeatedly and never been answered.

The Engineers had shown the way by means of transit, level and calculation. The mayor of the city had offered a reduced rate for the

water; the Athletic Association had decided in favor of it and appointed a committee to go ahead with the project of floating the rink.

With weather conditions favorable as the cold weather since Christmas has been it would seem that there was no excuse for not having the rink. If it is to be forthcoming at all it certainly should be built immediately since the students are here and all should be given the opportunity to enjoy this especially healthful exercise; for skating is an art of which almost every student is master.—Signed.

A WINTER TRAGEDY.

A mono-drama without words.
Cast: L. P. N.
First Act:—Place in the open air, thirty degrees below zero; time Jan. 6th, '09; costume, heavy overcoat, mittens, overshoes, and DERBY; action, one half mile

walk, rather brisk.
Second Act:—(1st Scene) Character is seen applying snow on his ears to thaw them out. Second Scene:—Same ears but twice their normal size; still attached to the characters head.
Third Act:—(Next Day) Character enters wearing a galy colored stocking cap.

Stock Judging.

The various sections of the stock judging classes are filled nearly to the limit. In order to accommodate the large number of new students who are applying for this work it has been contemplated to dispense with the advanced class in judging and have in its stead an additional section for beginners. Some of the sections are already rather large for efficient work. Professor Dynes who has charge of several sections in this work has as high as fifty-eight in a section.

Miss Ila Ramstad, a student of last year, was married Dec. 19th, '08, to Mr. William Reynolds, of Minneapolis, who is manager of a wholesale house in that city.

Mr. Peter Zink visited his sister at the Dormitory Thursday. He is returning to St. John's University, Minnesota, to attend school.

Miss Agnes Peterson returned late from her home at Washburn Sunday. Saturday was the first train through that town for some days.

Fred Hall Ph. G. is back at the College once more. He is taking a special work in Pharmacy.

Some of the City Students were very anxious to intercept their father's mail when Registrar Parrott issued the standings.

Any one wishing to see a case of magic just call at the Physics Laboratory and see the self lighting Bunsen burner.

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fit of the "short-horns" present and much to the amusement of the company.

Parade Wednesday.

Next Wednesday will occur the first battalion parade of the year. Both Co. A. and B. will be on parade at this time as well as the Band. This will be the regular order of procedure for the winter term. The drill between the two companies will be competitive. The best drilled company at the inspection will be the Colour Company for the coming month. It is thought that this will create considerable interest and rivalry in the drill of the two companies.

Athenian.

The Athenian Literary Society will hold its first meeting of the term Friday evening, Jan. 15, '09, at 7:15 o'clock. The program arranged is as follows:

Installation of officers.
Pres. Address .. Margaret Magill
Music .. Selected
Reading .. Grace Briseoe
Current Events .. Reginald Dynes
Music .. Selected
Paper .. Albert Thomas
Locals .. Chas Ruzicka
Criticisms .. Edwin Traynor
Music .. Selected

Y. M. C. A.

Instead of the regular devotional meeting on Wednesday evening, Jan. 6, Miss McCarty entertained in honor of the new girls. Music was enjoyed for a time and about nine o'clock refreshments of peanuts and cookies were served. About forty girls enjoyed a very pleasant hour among their friends.

NEW BOOKS FOR THE A. C. LIBRARY

These books have been added to the library in the past two months. Johnson—Her College Days. Blackstone—New Pieces that will take Prizes in Speaking Contests.

Gunnisin—New Dialogues. Hanson—English Compositions. Loening—Grundzüge der Verfassung des Deutschen Reiches. Auge—Pitit Larousse Dictionnaire Encyclopedique.

Victor—Elements of Phonetics. Clarke—Pioneer Days of Oregon History.

L. Lang—The Iliad of Homer. Lord Tennison—A Memoir. Arnold—Essays in Criticism—Second Series.

Kennedy—The Servant in the House.

Thomas—An Anthology of German Literature.

Meneken—The Philosophy of Frederick Nietzsche.

Coffin—The Biys of '76. Coffin—The Boys of '61.

Hebbel—Herodes and Marianne.

Beidermann—Deutsche Bildungszustande.

Tombo—Deutsche Reden.

Flexner—The American College.

Carlton—Education and Industrial Evolution.

Stephen—Dictionary of National Biography—Vol. 9.

Judson—City Roads and Pavements.

Wilcox—The American City

Pattersin—College and School Directory.

Whipple—Typhoid Fever.

Ellenberger—Histology.

Waterbury—Cement Laboratory Manual.

Mark Twain & others—Wit and Humor of the Age.

Marryat—The King's Own. Smiles—Men of Invention and In-

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Report if the Commissioner of Education for 1907.

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In Support of Veterinary Building.

(Dr. L. Van, Es.)

In order to intelligently present the matter, it may be well to first touch on veterinary science to agricultural education?

It is certain that a veterinary department should first of all instruct agricultural students in the anatomy and physiology of our farm animals. We lay great stress on the question, What relation instruction in animal husbandry, and rightly so, because the state's economic development is dependent on it. If the subjects included in animal husbandry are to be taught with a maximum result, they must be based upon at least a rudimentary knowledge of the organs which go to make up the animal body and the functions they perform. Is "stock judging" anything else but applied anatomy, or is "feeding" anything else but applied physiology? And is not the rational teaching of anatomy and physiology required to make the work of animal husbandry department more fruitful? These questions must certainly be answered in the affirmative, and we must look to the veterinary department to furnish this instruction, because veterinary training alone will furnish the necessary teaching qualifications.

The next great mission of the veterinary teaching in the field of agricultural education is to train our prospective stock raisers and agriculturists in the science of sanitation and in all the important art of prevention of diseases. A man's success in stock raising is directly dependent upon his ability or luck to prevent losses from disease. In this science we propose to train our agricultural students to such an extent as to enable them to deal with the prevention of disease in an absolutely positive manner and not as a matter of guess work.

In this country, and perhaps in any other country, disease cannot be eradicated by the official regulations of a paternal government. The only rational and practical way is to make disease and its prevention a matter generally as well understood as the phenomenon of day and night. Place some good information on disease at the

disposal of the man on the farm, and the prevention of disease will have made one enormous stride toward its full realization. This is what we are aiming at when we teach the subject of animal hygiene to our agricultural students.

In the matter of veterinary science proper the aim is not to make "every man his own horse doctor," but to impart such a knowledge as to enable our students to understand the economic meaning of the most common diseases; to know the various unsoundnesses as well as to be able to render first aid in case of accidents, etc. The subject is presented to them entirely from the standpoint of the agriculturist and with a view of doing away with the vagueness and mysticism which is so often attached to disease processes in the eyes of the lay.

This, I think, clearly and fairly illustrates the position of the veterinary department in agricultural education. The importance of the subjects fully justifies that an attempt be made to teach them thoroughly, and it is just in the attempt of doing our teaching thoroughly that the lack of proper facilities becomes most evident.

We cannot do justice to anatomy and physiology because there is no place where students can make a dissection so as to familiarize themselves with animal construction. There even is no place where fresh specimens can adequately be prepared by the department for class demonstration purposes. The room used for clinics properly belongs to the animal husbandry department and as to arrangement, lighting and construction is absolutely unfit for the purposes of a veterinary department. Furthermore, it is in use by the stock judging classes so frequently that this department often has to make its demonstration outside or in the dark and cold stable—a condition neither conducive to good teaching or the health of the students and instructor.

Certain phases of the teaching in this department can only be properly attempted by laboratory

demonstration, and yet with our present arrangement this is out of the question. The laboratory, however well equipped, offers no room for a large body of students.

For the teaching of the subjects mentioned models and specimens are absolutely necessary, and the agricultural college is proud that it has brought together the nucleus of a valuable collection; yet there is no room for storage, nor can we arrange this collection in such a manner as to be available for our students at any time.

The office, also used for library purposes and the storing of records, is too small, and considerable difficulty is now experienced to find a place for books, files, etc.

Now, let us turn to the reasons for a special building from an experiment station point of view. There is no greater field for research work than the problem in connection with animal diseases, and there is no state which is face to face with greater problems in animal sanitation than our own. In addition there is no state in which animal husbandry will expand more than here in the near future, and where it is in greater need of guidance and assistance from a sanitary point. The people naturally look to an experiment station for advice and aid, and this department is doing its best to meet this demand, but the lack of equipment limits the department's usefulness to a minimum. Infectious diseases, the greatest field for research work, cannot be investigated because there is no stable where infectious cases can be properly isolated. Yet the state is overrun with glanders; tuberculosis is altogether too prevalent; hog cholera and infectious abortion are discouraging to our breeders; anthrax has been introduced, and each one of the diseases mentioned offers opportunities for research full of promise. By actual experimental work present methods of control can be improved and new ones introduced, and when I say that this is not a mere matter of opinion or speculation but with the conviction of one who has given the subject an abundance of cool calculation.

What little experimental work is now undertaken is done under the most adverse conditions. Autopsies are often done in the open during zero weather or in a dark stable where conditions exclude careful bacteriologic work.

By having to place our animals in sheds, etc., reagents, to be used experimentally, the carcass is often frozen before they can be applied. Experimental cases are scattered far and wide in any place (mostly unsuitable) which offers itself, thereby losing great amounts of time in making studies—and all this is in a state whose losses from preventable animal diseases at lowest estimate will not be far from a million dollars a year.

Now let us glance into the future and see if there may be seen additional reasons for a first-class equipment.

In the course of the last few years there have come to the veterinary department quite a number of applications for a veterinary training from young men who wish to enter the profession.

The number of such applications in increasing from year to year and it does seem that they cannot be ignored altogether. As it is now many of the young men mentioned find their way to the least desirable schools of the east and return truly with a diploma, but without the thorough training which our live stock interests have a right to demand from their veterinarians. This thorough training should be furnished by the colleges of agricultural and mechanical arts, and the tendency seems to be that the veterinary education of the country will be

in their charge. The states of New York, West Virginia, Alabama, Washington, Iowa, Kansas and Colorado now have regular veterinary schools in connection with their agricultural colleges, and to my knowledge other states are contemplating similar arrangements. If this state were to follow their example we would render a service not only to our own prospective veterinarians, but to those of the entire northwest as well, as we would have the only school between Washington state and Chicago and north of Iowa. That this state is liberal with its professional training is shown by the fact that it maintains two separate and distinct schools for the engineering profession, and it seems that this liberality could be extended also to veterinary training by maintaining only one school for this purpose. Besides, there is undoubtedly a far greater demand for veterinarians than for engineers in this state.

Another function which sooner or later is to be performed by the veterinary department of this institution is the manufacturing of sera, vaccines, and other bacteriologic products used in the prevention and eradication of the infectious diseases of domestic animals.

We are rapidly approaching the time that these products will be indispensable in the control of those diseases, and it is hardly possible that we will continue to purchase those products at exorbitant prices from the manufacturing chemists pooled in the so-called "death trust." Those substances are becoming absolutely essential in the state live stock sanitation, and should their manufacture be trusted to those who not only have no direct interest in the eradication of disease, but those whose dividends largely depend on its propagation? It is certain that a purely agricultural state like ours will not very much longer tolerate that our misfortunes in the way of disease be commercialized by the greedy manufacturers of the east.

PROFESSORS ACT ROLE OF HUMANE OFFICERS

During the afternoon of a day last week when the thermometer was registering in the vicinity of twenty-five degrees below the zero point and still sinking and the north west wind cutting like ice, there was noticed in the open space on the south side of the campus a horse tied to a telephone pole. The animal was hitched to a covered wagon which indicated that it belonged to a tea merchant of the city. The animal was allowed to remain in this position for about half an hour when the owner of the horse was notified.

As this gentleman showed no disposition to improve conditions, Professor White and Mr. Morton took the animal to the College stables where it was properly housed for a couple of hours.

The driver when he finally revived on the sunny side of a radiator in one of our buildings had a good two hours search before he found his delivery wagon, but the horse didn't care.

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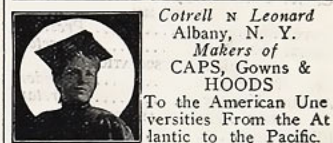
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PERSONAL

Professor Beals is a janitor now.

Fred Birch is a frequent visitor at the College of late.

Among the old students to return this term is Alfred Morris, commercial.

President Worst spoke before the men of the City Y. M. C. A. Sunday afternoon.

Professor Bolley arrived from his sojourn in Washington Saturday evening.

Professor Dolve reports an enrollment of nearly 200 in his farm mechanics classes.

C. V. Chilberg has taken charge of the heating plant at the creamery this winter.

Coach Magoffin has taken charge of the classes in commercial law.

Charles Clark, '08, has assumed his duties as special instructor in English for this term.

Professor Bell would like to catch the fellow that "monkeyed" with the stereopticon lenses.

Irving Phelps is now in the capitol city aiding the North Dakota law makers in their duties.

Professor Parrott is a happy man now but those were strenuous days that he put in at the desk last week.

Percy Gussman acted the role of driver for the College last week in the absence of Adolph.

Most of the station men enjoyed a busy vacation working in the various laboratories.

Messrs Hughes and Whitcomb and Miss Magill are acting the role of special instructors in English and Mathematic this term.

Professor Chambers spent some time traveling during vacation, visiting Chicago and his home near Cleveland.

Mr. Hughes spent his vacation making a Morris Chair.

Professor Froysa, teacher in violin, was in his studio at the College all day Wednesday. He enrolled a large class of promising musicians.

We notice that Adolph Wiesbach, a Farm Husbandry student of two years ago, is with us once more after failing to come back last year.

Kent Darrow, '09, and Worth Lumry, '10, are assisting Professor Keene with his large classes in preparatory Physics this term.

Stuart Short is continuing his studies in Pharmacy at the College this term in preparation for the State Examination next spring.

Peter Nordby of the Engineering course is back once more. He joins the Junior class in the engineering course.

Mrs. Remington has been visiting relatives in Minneapolis during the past two weeks.

Mr. A. P. Hertsgaard a graduate of the Farm Husbandry course has re-entered the College this term to take up work toward a bachelor degree in Agriculture.

Professor Richards was seen in the vicinity of the North Side last Saturday with a load of furniture. Some one imagined that he saw a typewriter in the load.

Mr. Meller of the city and Superintendent of the city parks is aiding Professor Waldron with his

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MUSIC EVENINGS BY THE RINK ORCHESTRA.

Horticultural classes this term and also is teaching in the English Department.

Professor Householder left for Kansas at the opening of vacation where he met his mother who accompanied him back to Fargo where she will make her home with her son.

Professor Arvold, during the holidays, took an extended tour through the state of Wisconsin, visiting his home and his friends in various places and favoring Chicago with a short business trip at the close.

The December number of the American School Board Journal contained an interesting article upon "The Movement of Industrial Education" by Professor Arland D. Weeks.

Albert Faust, after an absence from our midst of over a year, returns to take up his course in engineering and also casts his lot with the class of '10.

Ole Dolve, brother of Professor Dolve, has entered the college this term. Mr. Dolve was a star of last year's Normal basket ball team and will be welcomed among the players of our squad.

John Swenson, '06, was an unexpected visitor at the College last Saturday evening. John was for four years the center on the College football team and A. C.'s victory was especially sweet to him.

H. J. Hughes is making a study of the physical properties of soils between the Red River and the Shyenne in the vicinity of Fargo. He is doing this work in connection with a special course in soil physics which he is taking.

Professor Sheppard will speak on some new productions in plant life before the Polytechnic Society tomorrow night. The address will be illustrated with lantern slides and should be of interest to all. The meeting takes place in the Chemical Building.

Dr. Putnam's orchestra played at the First M. E. Church last Wednesday noon at a special rally of the Sunday School Students.

Friday morning Samuel Hiedner left for Jefferson Barracks, Missouri, where he will take the examination for admittance into West Point. All send after him best wishes of success in his endeavors.

Professor Bolley spent the holidays at a meeting in Baltimore of the National Association for the Advancement of Science. He also attended a meeting in Washington which had for its object the framing of laws to regulate the sale of seed and providing for the inspection of the same.

Mr. R. H. Herbinson is back at the College once more and is again in charge of the classes in dairying. He is putting forth strenuous efforts to make the course valuable and interesting despite of the discouraging facilities. At the present time there are about one hundred taking the work.

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Fargo, North Dakota,

Ralph B. Ward, '95, a member of the first graduating class of the A. C., made a short visit to the College last Thursday. Mr. Ward is a former star in the back field of the football team and figured prominently in some of the earlier games with the University. He now lives at Romey, McLean Co., North Dakota, where he owns a large horse ranch besides being interested in several other business enterprises.

W. O. Whitcomb has commenced work upon his thesis which will consist of an extended study of the adaption of alfalfa to North Dakota soils. He intends to procure samples of soils from the various parts of the state and determine the adaptability to alfalfa growing. This is a subject of vast interest to the farmers of the state and should make a very interesting and practical study.

Miss Aemora Alexander of Milwaukee, Wisconsin, is assistant in the cooking and sewing department during the large attendance of this term. Miss Alexander received her training at the Michigan Agricultural College after which she taught in the public schools of Manitowoc, Wisconsin, and Owatonna, Minnesota.

Professor Bergeman has been very busy through the holidays identifying the hundreds of species of plants that were collected by Dr. Bell last summer. Clarence Waldron was kept busy mounting them. The Herbarium in regard to the flora of the state is now nearly complete. Exchanges of the fascicles are being made with the Universities and Colleges all over the country.

Mrs. L. J. Snow of Oxford, Ill., is in Fargo and has been at the Agricultural College introducing a new method which is known as the "Snow Success System" of drafting patterns of which her husband was the originator. Besides giving instruction at the A. C., she has visited Concordia College and Oak Grove Ladies' Seminary. The method will be introduced as soon as the systems arrive. From here Mrs. Snow will go to the Science School at Wahpeton.

Wanted:—Somebody to write a song entitled: "Waiting at the Depot" for the benefit of certain A. C. youths that put in nightly vigils there on the opening week of school.



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PROF. ARVOLD OFFERS SPECIAL CLASS SAT.

Every Saturday from eleven to twelve Professor Arvold has a special class in his room to which the young men of the College are cordially invited.

This class deals with the influence and general character of the cities. The text used is "The Challenge of the City" by Josiah Strong, great settlement worker of New York City. The topics of interest that will receive attention during the course are social settlement, influence and work; institutional churches, Bureau of Charities; and Relief and Aid Society.

This class is under the direction of the College Y. M. C. A. and will be of special interest to the students that have never seen a large city—as Professor Arvold is well acquainted with the cities and will give something of interest to all who attends his class.

Prexy Hands Out Some Good Advice

First Chapel Assembly in the Armory—One Thousand Students Greet.

"DON'TS" AND "DOS" FROM PREXY.

Chapel Talks From Professors This Term—Professor Ladd Next.

"Never before in the history of North Dakota has the President of a college had the pleasure of addressing so large and, I trust, so fine a body of young men and women as are gathered here today," said President Worst in his address at the first convocation of the year to the over one thousand students gathered in the Armory. The entire body of students found their way to the Armory yesterday at ten o'clock and for the most part were seated comfortably. The collegiate students occupied the chairs on the floor while the others were crowded into the galleries.

Apropos President Worst was the speaker at this first convocation and confined his remarks to a few "don'ts" and a great many "dos".

"You are here spending your time and money, make the best possible use of it. In the governing of this large body of students I am going to call on a very large body of you to assist as governors, and the duty of each one of these governors will be to govern himself."

"Don't smoke on the Campus," was one of the remarks that fell from the President's lips that undoubtedly a large number of the students will take to heart. "If you are not here for business we don't want you and when we find it out we will notify your parents to take you home. Limit your attention to the attractions of the city and concentrate them upon your studies," was the substance of the other "don'ts".

"We have arranged that all can be comfortably seated and I request that all the regular and prompt in their attendance at Chapel. Most of the speakers for this term will be members of the faculty and something well worth hearing is promised at each assembly."

Professor Ladd of the Chemical Department will deliver the address next Monday.

Musician Coming.

Lithographs have made their appearance advertising the great cornet player, Virtuoso Courturier who will appear in a grand concert with Dr. Putnam's Band at the Grand Theater, Jan. 24th. This will be of great interest to our band men.

THE CADET BAND IS WORKING HARD.

Several New Members—Public Appearances Before Grain-Growers.

The first band starts in with great prospects for the winter term. Its membership now numbers thirty-six, as a few of the older members have returned and have brought with them some new but experienced players. Of the old men that have re-entered school are A. P. Hertzgard and Ludvig Lewis. A. G. Broschat, a new student, plays good music on the clarinet and much is expected from him. The boys are hard at work for the Grain-Growers Reception to be given Jan. 20, at the College Armory and for the complimentary recital to be given before the same body upon the evening of Jan. 22 at the Opera House.

The second band now numbers about forty, while there are fifteen in a third band and more coming every day.

Dr. Putnam's College Orchestra now numbers twenty and starts in the winter term with fine prospects.

Following is the schedule for the three bands and orchestra during the winter term:

1st Band, Monday, Tuesday and Friday at three-thirty with dress parade on Wednesday.

2nd Band Monday, Tuesday and Thursday at 4:45 P. M.

3rd Band, Monday, Tuesday and Thursday at 4:45 P. M.

Orchestra, Wednesday at 4:30 P. M.

DR. ABBOTT ASSUMES HIS DUTIES HERE.

Successor of Professor Wood Arrives the First of the Year.

Dr. G. A. Abbott, who was engaged to fill the position of Professor of Organic and Industrial Chemistry, took up his new duties at the College on the first of the year, and is now hard at work getting the paint investigations under way.

Dr. Abbott received his B. S. and A. M. degrees at De Pauw University, Indiana. Later he received the Ph. D. degree at the Massachusetts Institute of Technology. He taught at Evansville, Ind. and at Duluth, Minn., for some years and previous to his coming here he held a position in the Manual Training School in Indianapolis.

While in Indianapolis he was President of the Indiana State Science Association and President of the Chemistry section of the central Science Association. He is also a member of the American Chemistry Society.

Dr. Abbott's work here will be largely confined to paint analyses for the present. This is a new and in many respects a difficult field of investigation but Dr. Abbott is thoroughly competent to carry out the work.

Wheat Tested.

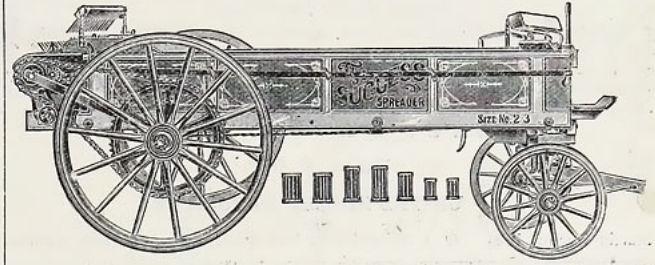
There are now being tested out in the milling and baking laboratories a number of wheat samples from Kansas and Montana. Some of the wheat has already been milled and the baking tests have begun. The results are looked forward to with great interest as they will show the relative value of North Dakota wheat as compared with that grown in older sections of the country.

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ANNUAL BALL FRIDAY.

Aggies will Give Their Second Annual Dance Upon the Fifteenth.

Lovers of the dance at the College will turn out to the first function of the season next Friday evening. The dance is being given under the auspices of the Agricultural Club who promised that they will do their best to make the most enjoyable evening of the year.

CHURCHILL MEETS FORMER PROFESSORS

Professor O. O. Churchill in a holiday trip through the East reports pleasant visits with Dr. C. D. Holley and Professor Kimberley, both formerly of our Chemical Department. Dr. Holley is still with the Detroit Paint Company, with whom his work has been so successful that he has had a handsome raise in salary in the short time he has been with them. He, however, states that he will leave the company soon to go into business for himself.

Professor Kimberley who is in Pennsylvania, has been prospering too. Lately he has published a book which is an original produc-

1000 Men Wanted

to stand in the barrel while Bergerson presses their clothes.

Room 18, Basement Fargo Ntl Bnk. Bld

tion on the subject of pharmacy and which is meeting with much favor in the scientific world.

SUBS MAY PLAY IN DEPT. GAMES.

Of great benefit to the College basket ball team is the new ruling of the Athletic association that men of the second team who are subs in the intercollegiate games, will also be eligible to play in the inter department games.

This has resulted in several of the stars of the Engineers and Aggies teams reporting for practice and are giving the first team a harder battle every day.

Guide to an apparent lost bystander: "Is there any place that you would like to have me show you?"

Charley Clark: "Show me the way to the Dormitory."

The junior class in public speaking meets at three every afternoon; a large class of enthusiasts are enrolled.

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