

# THE WEEKLY SPECTRUM.

Official Publication of the Student Organization.

Vol. 15 Number 17.

NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY FEBRUARY 2nd, 1909.

PRICE 5 CENTS.

## Day of Prayers observed on Thursday

Dean Burleson Delivers Pleasing and Impressive Address to Students

### BECOME BROADER MINDED

Urges Development of the Spiritual Nature of the Student.

The Day of Prayer was observed at the College last Thursday by convocation exercises in the Armory. Dean Burleson of Fargo was the speaker and devoted his time to giving a practical talk to the students in a way with which everyone seemed highly pleased.

"I want you to forget that I am a minister and am saying these things because I am instructed to," were his opening words, "but think of me for a time, if you can as a man talking to men of something which I believe in and which I think will interest and benefit you."

"A great many people think that religion is for some few people and not for the common people to use in their everyday life. I want to put this idea out of your minds and impress upon you the usefulness and practical nature of real Christianity.

"First, I want to put the idea out of your minds that being a Christian makes a man any less useful and broad minded. Take the President of the United States, there is not a more broad minded and energetic man than Theodore Roosevelt and yet he follows the Christian faith.

"The real things in life are the things that you don't see. Let us, then, assume that there is a God, for before you can work out any scientific facts it is necessary that you assume certain things to be true and start with certain theories, then we believe that there is a God and that he will help us in our everyday life because we try leading Christian lives and find that we are benefited.

"The Day of prayer is set apart and observed in all the colleges that the scientists and students may take a little time from their various kind of work to think of things spiritual, for no man is a strong man unless he develops the three sides of his nature, spiritual, moral, and physical. In order to do this it is necessary that you devote some time every day to thinking along different lines besides merely scientific. Become broader and live broader lives for you will become better men and women."

### SECOND YEAR FARM HUSBANDRY MEN ORGANIZE

Last week the second year Farm Husbandry men organized and elected following officers: Wm. Maxwell ..... President Urban Ebner ..... Sec.—Treasurer The class as organized has had its picture taken for the Aggassiz. Considerable credit is due to this class as it is the first to organize in its second year.

## CHAPEL. Legislative Committee Visitors at Chapel. Speak to Students.

The feature of yesterday's chapel was to have been the singing of college songs but owing to the presence of the Legislative investigating committee the regular order of services was diverted from in order to give these gentlemen an opportunity to speak to the students. Both Senator Crane and Representative Wolv..... addressed the students.

Senator Crane briefly spoke of the procedure which the legislature must follow in apportioning the appropriation among the various state institutions and how the request must necessarily be trimmed to meet the amount which is available, and which is not more than half of the entire sum requested the state institutions.

Mr. Wolv..... spoke farther on this subject touching upon the Agricultural nature of the state. It is the one industry of the state. For that reason he said that it was his belief that we should have the best agricultural college in the country.

### PROF. WILLARD RECEIVES PROOF OF MAP.

Map Shows in Colors the Soil Differentiations and Types.

Last week Professor Willard received the color proof of his soil map from the hands of the printers. This map represents two years of hard work and is as detailed as a map of that size can be. It does not show all the features of the detailed soil survey maps but it is possible to tell from this in a general way what the character of the soil is in any part of the state. It should be of aid to the land buyer who wishes to know whether he is purchasing a rock pile or a swamp. There are twenty seven soil differentiations or types shown, but all are included in a few series. The principal series are the Fargo, the Marshall and the Morton.

The Fargo series with its eight different types of soils includes the Mouse River Valley, the Red River Valley, and parts of Sargent and Diekey counties. The Marshall series with eight different types of soils include all of the rolling prairie east of the Missouri. The Morton series are valley types of soils such as fringe the Sheyenne, James, and Missouri Valleys. The map will be ready for distribution in six weeks.

### F. H. PINS.

The Farm Husbandry men received their class pins Saturday. The design is original with the class being in the form of a shield of wheat on which is a shield wearing the class colors and numerals. The pins are Roman gold and are very attractive.

It is proposed to make this sign permanent for the shield which will be in the class color of the year.

A much needed coat rack has been placed on the third floor of Science hall.

## COLLEGE HERD FREE FROM TUBERCULOSIS

The Station Cattle are not Afflicted with the Dread Disease.

Within the past week the College herd has been tested for tuberculosis by a representative of the Bureau of Animal Industry. The Bureau is endeavoring to obtain data on the prevalence of Tuberculosis at the State Agricultural Colleges and also in the herds owned by individuals throughout the different states. The cattle here at the College were found to be entirely free from the disease.

This state of affairs is a result of the great care which has been exercised in the College herd in buying nothing but animals which had been tested and known to be free from infection and eliminating at one any showing indications of being infected. The credit of this state of affairs is due to the united efforts of Professor Richards and Dr. Van Es who have been untiring in their efforts to maintain the College herd in a healthy condition.

## Annual Declamatory Contest next Friday

Speakers Will vie for the Worst Gold and Silver Medals.

ELEVEN CONTESTANTS ARE ON THIS WEEK.

Demonstration is Expected From the Rival Societies Represented.

Next Friday night the speakers of the College will clash in the annual declamatory contest for the gold and silver medals offered by President Worst. The coming contest promises to be an interesting one fraught with rivalry between the societies. The Athenians won the banner in debate; who will win the gold medal?

The following is the program which will be delivered in the College Chapel upon the evening of Feb. 5th:

- President of the Evening.....
- ..... Miss Grest
- Musie ..... College Choir
- Blame .. The Plumed Knight
- ..... Ole Naarl
- College Oil Cans..... John Brander
- Mice at Play..... Ruby Gibbens
- Rip Van Winkle Olaf Hendrickson
- The Cyclopedia... Lottie Lockhart
- Happiness and Liberty .....
- ..... Allen Clark
- The Moonlight Sonata .....
- ..... Annie O'Keefe
- The Poolish Boy.. Edwin Traynor
- Peters the Susceptable .....
- ..... Ruth Heath
- In the Pursuit of old English
- ..... Fern Dynes
- Cut off from the People....
- ..... Will Stapleton
- Musie ..... Selected

Prizes:— 1st Gold Medal—Donor President Worst. 2nd—Silver Medal—donor President Worst. These medals will be held by

## COME DOWN. Senior May be Made to be Even as a Little Prep.

By the action of the faculty the senior, yes even the haughty may be made to humble himself even as a little prep should it happen that he be found lacking in one or two of the required preparatory studies or as a freshman should he in that year long past when endowed with all of the follies of youth have flunked out a couple of times. According to the action of the faculty on Jan 29th, all students will be listed in the forthcoming edition of the catalogue according to the rules of the faculty governing such classification.

The rule is as follows and is printed on the report slips of the students at the end of each term: "Promotion:—No student who is more than two full term subjects in arrears of his class shall be promoted and before admission to the Senior class all subjects due previous to the Junior year must be completed.

"If a student fails to pass a subject with his class he is given an opportunity to make it up by special exam before the next class takes up the subject. If the condition is not removed he must take the work with the next class."

In accordance with these rules a student who expects to graduate next June he should have two preparatory or freshman subjects in arrears will be listed in the catalogue as a preparatory student or a freshman. It is therefore advisable to hand in all entrance credentials and make up all failures or conditions as soon as possible.

## ANNUAL ORATORIAL CONTEST FEB. 26, '09.

There are at present ten persons who are extremely busy working upon orations for the oratorial contest to be held Feb. 26, '09. These persons need every word of encouragement as the intercollegiate contest is to be held here April 9th and the A. C. this time wants to win. There are two or three who for lack of time have dropped out of the contest. Should there be any more that wish to try out they should hand in their orations at once. Those who are at present entered in the contest are, Magill, Staples, Michels, Ford, Becker, Nordby, Olson, and Nemzek.

Have you seen the skating rink lately?

## ENGINEERS DEFEAT FARGO HIGH TEAM.

In a fast game Saturday evening on our home floor the Engineers defeated the Fargo High School team by a score of 17 to 15. This was the only game played in Fargo that evening but owing to the lack of advertisement the attendance was small.

the winners for one year and become permanent property when won the second time.

The judges of the contest will be announced later.

## Bad Luck Abroad But Never Mind

A. C. Quint Loses Hard Against Two Fast Teams.—Capt. Darrow Out.

### ST THOMAS HERE SATURDAY

Bring Out Your Strongest Lungs. Learn to Yell and Forget Your Loves.

Amid stings of defeat our team comes back to us, but none the less gallant in our eyes. Outclassed by a score of 42 to 12 by the revengeful St. Cloud Normal team Friday and by a score of 52 to 11 at St. Thomas is the doleful news that is whispered in our ears. However, a long, hard trip, a strange floor, and Captain Darrow out of the game is enough to give any team a streak of hard luck. The substitutes were used and all the players did their best but circumstances seemed to be against them.

Next Saturday evening there will be an interesting game in our gym when the A. C. team takes its revenge on the St. Thomas five. This contest will mean a lot to us and each and every loyal student should be there with his strongest lungs. In order to promote more effective rooting, those gentlemen that are inclined to go double are requested to either break their lovebonds and join in with the cheers or withdraw from the ranks of the rooters to a corner by themselves. Another thing that would help along is the studying of the yells and the appointment of a yell leader for the occasion. The management of athletics also, fearing that there may be an misunderstanding of the free pass system, states that all students holding registration cards will be admitted to the game free of charge upon the presentation of the card. You paid for this privilege when you entered College.

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### COMING SCHEDULE.

Following is the basket ball schedule for the A. C. teams for the remainder of the season. It will be noted that but two games for the girls appears on the list. The manager has met with difficulty in securing games for them.

- At Home.
- Feb 6th ..... St. Thomas
- Feb. 13th boys and girls Mayville
- Feb. 27. boys and girls State Science School.
- Mar. 13th. .... St. Johns
- Abroad
- Feb. 20 ..... Valley City
- Feb. 22 ..... Bismark Co. A.
- Mar. 6th ..... Fargo College.
- Mar. 20th. .... Mayville

### THE "SHORT MEN" BEAT THE "LONG MEN."

Wednesday evening the long and short course Aggies met in a contest for baskets which resulted in a score of 18 to 14 in favor of the "Short Men". The "Long Men" were greatly handicapped by the absence of Bert Haskins, the untiring forward, and Michels, the big center.



# A. C's Needs from Student View Points.

## VETERINARY BUILDING

The veterinary facilities at the College at the present time can not accommodate the students taking veterinary subjects in connection with an agricultural education, and the board has already established a full collegiate course in veterinary medicine and surgery, a new building is absolutely necessary.

About twenty students have signified their intention to take this course and there will no doubt be more applications in if the course was once started and known over North Dakota. The College authorities have during the pass few years a great many inquiries after work in veterinary medicine and students who have come expecting to find opportunities for that type of training have been turned away.

A small appropriation has been asked for. Would it not be cheaper for North Dakota to erect this building than to send those twenty boys out of the state for an education?

The stockmen and farmers of this state have a right to demand this building. There is no state which is face to face with greater problems in connection with animal diseases than North Dakota and naturally they look to the experiment Station for advice and aid, and yet there is no state with poorer facilities for research work. Stock men lose more animal each year from preventable diseases which could easily be checked by the proper use of sera and vaccines which should be manufactured at our experiment station. than would build several veterinary buildings.

As to the Collegiate course in veterinary medicine here are some reasons why many students who wish to learn a profession look to this course.

The head of this department is one of the foremost doctors in America. With such a man as Dr. Van Es at the head of the department they are assured of the best instruction possible.

Graduates from this course would have the following opportunities that skill in the profession offers: as inspector and assistant in the bureau of animal industry, as an instructor in agriculture college or veterinary school, as an investigator, as a veterinary surgeon in the army, as state veterinarian, as veterinarian for municipal health boards, as a stock farm manager, and as a practitioner.

The course offered by the college is equal to any in America and is on a par with the best offered in Europe.—J. D.

## Agricultural Department.

To Spectrum:—After reading your editorial on appropriations in last week's Spectrum, I thought perhaps the students of the College would be interested in knowing the present needs of the Agricultural Department. There are two very urgent needs in this department, one for a dairy building and dairy barn and the other a veterinary building.

One look inside the present creamery will satisfy a person that it is an entirely unfit place in which to make a product for human food. Not only is it unsanitary, but with the present number of students wishing creamery work it is impossible to accommo-

date them, consequently the lecture work is given in the college chapel and the utter lack of equipment in the creamery makes the majority of the students so disgusted that they will not go there for practical work.

To supplement the work in the proposed new dairy building the department is also in great need of a dairy barn. The present cattle barn is entirely overcrowded and not enough cows are kept to supply the needs of the farm house and the Domestic Science Department. The supply of milk in and around Fargo is indeed so meager that the College up to the present time has been unable to purchase a supply of whole milk on the market, consequently no instruction has been given this term in the use of the cream separator. The few cows available for instruction in dairy conformation and type are utterly inadequate for present needs.

We are also in great need of a new stock judging pavillion. There are at present two hundred and twenty-five men taking this work in a room scarcely large enough to accommodate one half that number. No instruction could be given this term in advanced judging on account of lack of specimens and facilities, though over eighty men expressed a willingness to take this work.

There are other buildings and equipment needed very badly, but the few that I have mentioned are paramount, and if appropriations for these are obtained it will relieve the tension in the Animal Husbandry, Agronomy, and Farm Mechanics divisions of the Department.

It seems to me, Mr. Editor, that North Dakota being a strictly agricultural state and depending entirely on the products of the soil for her riches, that her Legislators should be exceedingly liberal towards our college in the matter of appropriations, especially when they consider the vast number of young men that come here each year for instruction along agricultural lines, and that owing to the lack of facilities we are unable to give them the proper instruction. The boys and girls of N. Dak. deserve the best the state can give them, and should the Legislature see fit to grant us a liberal appropriation I am sure they will not be disappointed in the way the College will receive it.

W. R. L., '09.

## THE POWER PLANT.

From the standpoint of the students the passage of the present bill before the legislature appropriating the money for the installation and maintenance of an electric power plant at the Agricultural College cannot be too highly commended. In line with the present movement to centralize the College life as far as possible on the campus, it is of the utmost importance.

The present lighting system is alternating current, and to be used in motors and laboratory apparatus has to be transformed into direct current, thus entailing considerable loss of current as well as extra apparatus and space. Getting current from the downtown power plant we are entirely dependent upon conditions at the plant for our light and power, and the recent demonstration during the reception to the Grain Grow-

ers is a sample of what we may expect:

The College will never require less current for lighting and power than it does at present and in the near future, especially with the establishment of a Women's Building and dormitories on the campus, the amount of current used must be considerably increased. When such buildings are built and large numbers of the students and faculty remain at the College day and night, some system of lighting the campus and drives will be necessary and this will also greatly augment the amount of current necessary. This load will probably be of a very fluctuating nature as at present, and large demands are liable to be made on the power plant on short notice. With our own power these demands could in a nature be anticipated and trouble avoided.

The re-organization of the equipment of the mechanical department and especially the machine shop will witness the installation of a large number of motor driven machine tools and appliances, which will be running at all hours of the day. Larger and larger amounts of current will be used in the engineering laboratories as the department grows, and with the installation of a course in electrical engineering, a complete power plant equipment will be a necessary feature of the laboratory apparatus. Even now in the study of electric machines the senior mechanical engineers should have such a plant for practical reference work. With our own power station on the campus, no extra cost would be entailed for this work, and power plant, generator, and switchboard tests could be made with dispatch under actual running conditions.

Objections can of course be raised on the ground that the College power plant would be as liable to failure as the city current, and in other minor matters, but it is thought that the advantages to be gained are so numerous and marked as to entirely offset anything to the contrary, and the recent action of the board of trustees in recommending such a power plant shows that they in sympathy with the needs of the institution. V. C. P. '09.

## Opinions of College Women From Two Standpoints—Dorm and Instruction.

Domestic Science was given its home in Francis Hall in 1890, and began its work in three rooms with a coal range, tables, and a few cooking utensils. In 1898 these were found not sufficient, desks were added to the laboratory and gas connection provided. In the same year sewing classes were organized and were given a room adjoining those used for cooking.

For eleven years the work has been carried on in these few and small rooms, beginning with the attendance of about a dozen girls and now crowding in about one-hundred and fifty-five. Those taking studies along the line of cooking numbering 85 and those in sewing 75.

Where the work given in this department was only one or two classes in cooking and sewing we now have the three year Domestic Science course embracing cooking, sewing, dietetics, composition of food, marketing and domestic accounts house hold science and various other subjects, our little home in Francis Hall is not large enough, we must have more room

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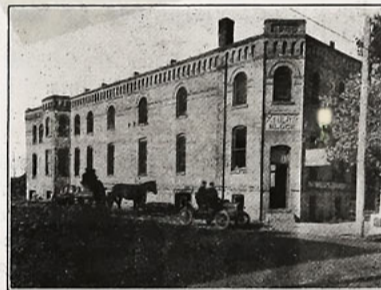
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so that the work can be carried out to the highest standard.

This year there is a large class of girls beginning this course their work is not strictly confined to the Domestic Science department, but next year and the third year the greater part of their time is spent there in lecture and laboratory work. What is going to be done then?

The room first intended and used for a reception room is now used for that purpose, a lecture room and office. We must have a lecture room and the professor ought to have a room where she can work and study with out being interrupted or bothered by the coming and going of the girls.

The course requires laundry work, but how are we going to do satisfactory work using dishpans and four by ten inch wash boards, to be sure we will learn the science of the work, it is always practice that makes perfect, but, perfect work cannot be done with these utensils. We need a laboratory es-

pecially for this purpose. In the sewing department we are in great need of a fitting room, now we have a few wabble screens set up to partition off one corner of the room to be used for the purpose but there are not many girls who care to go behind that to try on a garment for at the least provocation that partition is lying flat on the floor. We have no room for supplies or lockers to keep the sewing articles in and every one who has attended colleges realizes the need of these. for school belongings have a great habit of walking away. There are two small show cases provided in which to exhibit the work done by the girls and there is not more than enough room in these to exhibit the work of two of the girls saying nothing of showing the work of seventy-five.

This department is being built up more every year but the standard cannot be reached until we

(Continued on Page 3.)



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## Societies

### Y. W. C. A.

The Y. W. C. A. devotional meeting was held at the Dormitory was held Wednesday evening, Jan. 17. Miss McCarty lead and the subject was "The College Girl, Christian and her Social Life." She told of how the Y. W. C. A. meant fellowship and one should be careful to be kind and helpful to all and not be wrapped up in one friend. While we have our own particular friends which we love most, we must be careful not to neglect others who are not so near to us, but be helpful and friendly to all to show the true spirit of Christianity.

After the meeting a short social session was held and fudge passed. At this meeting was the largest attendance of this year and it is hoped the attendance will keep up.

### ATHENIAN.

The Athenian Literary Society met in the society room Friday, Jan. 29th. The first number was music by the male quartette, which was much enjoyed. Amos Ewen gave an amusing reading. Paul Funderhild told of "Surveying in the Everglades," which was very interesting. Wm. Lanxon spoke upon "Institute Speaking" from a beginners standpoint, Jessie Thompson read an original poem, "Glimpse into the Young Ladies Hall" which showed her having great talent along this line. Mr. Harold song a solo which was much appreciated by all. Next followed a story telling contest, in which Ben Barrett, Addie Staff took part. The judges decided upon Ben a Brett's story as best and Earl Yerrington's as second. Misses Ruth Hull and Jessie Peterson played a beautiful duet as the closing number.

### Y. M. C. A.

Owing to some misunderstanding, Rev. Orr, who was to speak at the Y. M. C. A. meeting last Wednesday failed to make connections so there was no meeting held.

Mr. W. E. Fenno, representative of the International committee of the Y. M. C. A. and who is conducting a series of lectures every evening at the city Y. M. C. A., will speak at the College Y. M. C. A. meeting in chapel Wednesday afternoon at 4:30 and also on

Friday at the same hour. Mr. Fenno has had a great deal of experience and all College men should make it a point to hear him.

### Agricultural Club.

The club was called at the regular time Saturday evening by Vice President Peterson. A musical selection by the quartette and a talk upon "The Relation of Humins to Fertility" were the features of the program.

### LADIES' HALL NOTES.

The Hon. A. S. Gibbens visited his daughters, Ruby and Gertrude between trains on Friday.

Misses McCarty and Alexander dined at the Metropole, Saturday evening.

Miss Mary Keely, of the Moorhead normal, visited her friend, Miss Norris, at Ladies' Hall, Saturday.

Miss Fern Dynes spent Saturday and Sunday with friends on the South side.

"Oh, Ce'ia, how are your pictures?"

"Aw; they're just lik eme."

Misses McCarty and Alexander entertained a "few" friends at Ladies' Hall Tuesday evening.

Arthur Anderson is back at college. He will spend six weeks in the study of Pharmacy in preparation of the Mar. exams.

Burke Chritchfield was called home Friday by the illness of his mother.

### LOST!

In wash roof of Mechanical Building last Saturday, one plain gold band ring engraved V. C. P. Please leave at Spectrum office.

### PRESENTATION OF

#### "LUCY WHITE" SOON

The Edwin Booth Dramatic Club is busy preparing their play "Lucy White" or "A Professor's Love Story." Francis Willard, the noted actor played in it for several seasons and it has been staged successfully in a number of colleges in America.

The play is exceedingly well adapted to North Dakota audiences as it is full of wit and humor intermingled with pathos. It is sure of making a bigger hit than did the presentation of "Captain Racket."

The dates decided for the presentation of the play in Fargo are either Feb. 12 or 22. The clubs object in putting on the play is noteworthy as they are going to furnish a hospital room with the proceeds for the use of A. C. students. Watch your mail and the bulletin board and get further particulars.

Professor: "All plants take up carbon dioxide, or in other words breath the breath we give off."

Short Course Student, (greatly confused):—"You say that we breath carbon dioxide. In engineering they say carbon dioxide is smoke. (Giving violent breath:) "You don't see any smoke, do you? Well, I would like to know where I am at."

The Senior Farm Husbandry students are doing some very interesting work in soil Chemistry. Each have obtained a soil sample from his own locality and is determining its chemical composition.

The Freshmen haunt the Library of late in a desperate attempt to decide on the weighty question of initiative and referendum in legislation and the virtues

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## The Promise of Denatured Alcohol

By Grant Morton A. C.'s Representative at the National School.

Denatured or industrial alcohol is ethyl or grain alcohol which has been rendered unsuitable for drinking purposes by the addition of a substance or several substances soluble therein imparting to the product of bad taste or odor and of an intensity which would prevent the ordinary taste, not the depraved taste of the drunkard from using it as a drink. The denaturants must also be of such a nature that they cannot be readily separated from the alcohol and of necessity of such a nature as not to inhibit or detract from their use in industrial processes.

When the law, which removed the tax on alcohol that had been rendered unfit for drinking purposes was passed by congress June 7th, 1906 a great deal was said and written upon the matter that had only a slight coloring of truth in it. Many people, especially farmers were lead to believe that the fuel, light and power problems for them would be solved. In other words the impression was quite prevalent then, that since there are so many farm products from which alcohol can be made, almost any farmer could produce plenty of alcohol from the products on his farm that ordinarily goes to waste. These ideas, of course originated or animated from some ultra-enthusiast who was none too careful to post himself upon the facts in the case. The fact that the prophecies held out in this unwarranted advertising have not been realized has caused the farmer to become discouraged and to look

upon denatured alcohol as a failure as far as he is concerned.

It would indeed be fortunate if the farmer could produce enough alcohol from his waste products to supply his needs but we are in no proximity of so fortunate a condition. Of course there are many farm products that can be used in the manufacture of alcohol but at the same time comparatively few of them can be used with profit, because of the high price of these products and the demand for them for other purposes. It should also be understood that the refuse of the farm will provide only a small fraction of the alcohol demanded if the substance ever comes into general use and I think that it will. This simply means that farmers will have to grow certain crops for the express purpose of being converted into alcohol. These crops will probably vary with the section in which they are grown. In the solution of the problem for one section may not be the solution for another section.

In the extreme south, cane molasses seems to be the probable source while in the eastern and southeastern states the "cassava" plant seems to be promising material. This plant contains 25 per cent fermentable matter and has an average yield of four tons per acre, which is the equivalent of 90 gallons of 90 per cent alcohol. In the middle states corn will probably continue to be the source of alcohol for some time to come and the south west has a cactus which may have a future for alcohol production. Here in the north west it is harder to predict just what crop or crops will eventually prove best adapted to this purpose. The sugar beet and the potato have promise. So far the attempts to grow the special alcohol potato have not been successful but it is very possible that a potato will be found that will

answer the purpose and can be improved from year to year as has been the case in Germany.

In the erection of a distillery there are many important considerations to be taken into account. It must be located in a district where the raw materials are plenty and where the finished product can be placed upon the market conveniently. Next to the consideration of the raw materials comes that of the water supply. It would be impossible to run a distillery with out an abundance of cold water. If iron, copper, or aluminum are present they must be removed as hydroxides as diastase is precipitated by the salts of these metals. The third consideration is the fuel supply.

After the distillery had been located the next consideration would be the kind of apparatus and machinery to be installed the best is of course none to good. The most expensive priced apparatus in the distillery is the complicated copper stills about twenty feet high and eighteen inches in diameter. A still of this capacity, one hundred and fifty gallons was used at Washington, D. C., and cost about six thousand dollars. The cost of the complete distillery being nearly ten thousand dollars.

Now as to the operation of a distillery. The distiller must be a man of practical experience in distilling and must thoroughly understand the operation of all of the machinery and the entire process from beginning to end. He will need two assistants one a little above the average intelligence and an ordinary working man. It takes just as large a force to operate a hundred gallon distillery as a five hundred gallon. The two requirements which must be absolutely adhered to are cleanliness and system. The yeast mash should be ready as soon as the mash containing the fermentable matter has been cooked and run into the fermenter. Here the mash has been allowed to ferment and when the fermentation has ceased the mash is said to be "dead". The beer as it is called is distilled immediately. If allowed to stand in the fermenter after the other fermentations will start alcoholic fermentation has ceased and cause a loss of alcohol. gauged so that as soon as the beer tilled the next one will be ready for distillation.

In all distilleries the process is essentially the same with the exception of treatment of raw materials and distillation. The process of treating raw materials differs slightly but the object is the same in every case, namely the thorough gelatinization of the starch and the separation of the cellulose. The distillation of alcohol, if a high percentage of distillate is desired, is always carried on in a continuous rectifying still.

Raw materials may be divided into three classes.

1st: those containing starch including all cereals, cassav, and potato etc.

2nd: those containing sugar as beet, corn cobs, stalks, fruits, etc.

3rd: Those composed of woody fiber and etc. The quantity of alcohol produced from this latter class of materials is small.

So far I have only considered the crops which must be raised especially for the production of alcohol. I will now consider briefly the waste products which which may be used. The stalks of field corn, sweet corn, and sorgum contain large quantities of fermentable material in the shape of sugar and starch. If this material could be used it would increase greatly the supply of raw material

but the technical difficulties attending the utilization of stalks are so great that it is doubtful whether means can be devised whereby their use can be made profitable for alcohol production. This matter should, however, be investigated because if stalks could be used, have almost an inexhaustible supply of material. The supply would have to be disposed of in two or three months if all of the fermentable matter is to be utilized and this would have to be the case or the raw material would not pay. In curing the stalks the sugars ferment, and the alcohol is lost.

Molasses is the by-product in the manufacture of sugar. It has about fifty percent fermentable matter, and there is a vast amount of this to be had.

Distillery, however, could not be erected just for the purpose of converting into alcohol these waste products of this nature as some years the amount of spoiled grain is small.

Denatured alcohol is divided into two class according to the denaturant used. Namely, completely denaturized alcohol and specially denaturized alcohol. The completely denaturized alcohol is made by addition to one hundred volumes of grain alcohol 10 volumes of wood alcohol which must be approved by the Bureau of Internal Revenue and one half volume of benzine or kerosene. Another formula may also be used. This consists of two vol. of wood alcohol and one volume of pyridine bases. This completely denaturized alcohol is used for light, heat, and to produce power.

The formulae for the specially denaturized alcohol are submitted and passed upon by the Bureau of Internal Revenue and only one formula is allowed for each industry unless there is good reason for allowing more. The special is essential in the process of manufacture, for example the alcohol used for the production of ether is denaturized with ether or sulphuric acid. The permission to use special denaturants has broadened the application of alcohol in industrial processes.

The efficiency of alcohol for lighting purpose as compared to kerosene has been shown by the electrical testing laboratories of New York where the following data was obtained: Alcohol has an efficiency of three and one-half times that of kerosene, or gallon of alcohol at sixty cents is as cheap as kerosene at eighteen cents per gallon.

Owing to the expensive and complicated apparatus and large amounts of raw materials needed to run a distillery economically the individual farmer will never have a distillery of his own as was first predicted. The prevailing belief is that the farmers of Germany have their own small distillery for the production of alcohol for denaturizing purposes but this is not the case. Only about 10 per cent. of the 80,000 distilleries in Germany make denaturized alcohol. These distilleries are large and are run on the co-operative plan. The farmers in this country will have to organize co-operative distilleries or they may produce a low strength spirit of about 50 per cent in small inexpensive stills and take this product to a more complicated community still where it may be rectified.

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**AN EXPERIENCE IN THE ROCKIES.**

(R. E. Miller)

My friend, Ned Newton, and I labored wearily up the steepest trail. Night had come suddenly upon us while we were yet several miles from Silver Creek, a small mining town which we had hoped to reach that evening, and as the heart of the Rocky Mountains is a very dangerous place to spend a night, we began to cast about for some shelter where we might sleep. As we rounded a curve in the trail at the bottom of a deep and gloomy canyon we came upon an old ramshackle hut built in among the softly whispering pines and spruces. We cautiously approached it and rapped smartly upon the door. It was flung open by a very tall fierce looking mountaineer who demanded of us what we wanted. We asked him for a place to sleep, and without a word but with a gleam in his piercing black eyes he motioned us to come in. We entered and saw an equally tall and fierce looking women moving with a catlike tread around a table preparing the evening meal. No introductions were offered and they both kept sullenly silent or only answered in gruff monosyllables to our attempts at conversation.

We had been there but a few minutes when six tall muscular looking sons came in, each carrying an axe over his shoulder and a gleaming hunting knife at the belt, each looking as fierce as his parents. They glared at us from under shaggy black eye brows as they filed past into the kitchen but not a word was spoken. Ned moved restlessly in his chair and cast longing glances at the door. Supper was called and we ate heartily of the plain but plentiful meal. Soon after supper the father took a candle and showed us up a ladder into the garret where there was a bed made on the floor where we were to sleep. After setting the candle on a box he descended and removed the ladder. Our fears were now proved, in our own minds to be correct and we looked at each other certain that by morning we would be dead.

We lay down determined not to sleep but our day's tramp had wearied us and we fell into trouble.

slumber. I had been asleep but a few moments, it seemed to me, when I awoke with a start. I could see a pale stream of light coming thru the square hole in the floor where we had entered, and some one was coming up the ladder. The light grew brighter and brighter when a hand holding a half burnt candle was thrust thru the hole. Soon the father's head came in sight holding a sharp pointed evil looking knife in his mouth. I closed my eyes in terror unable to move a muscle. He came up thru the trap door and crawled noiselessly toward us. Then I heard his wife whisper, "Are they asleep?" He remained silent and bent over us taking the knife from his mouth and gripping it tightly in his hand. I was ready to yell when he jumped to his feet and cut off a strip of bacon that was hanging from the rafters above.

**MY FIRST SALMON.**  
(Robert Amidon.)

At last the much hoped for hour had arrived as I rowed out onto the heaving swells of the Pacific. I looked forward with big expectation, this being my first salt water fishing. I held a heavy line between my teeth which extended nearly one hundred and fifty feet back of the boat. A number eight brass spoon and hook adorned the other end of the line. The weather was warm and balmy and every now and then a school of channel fish would dart past with the sun striking their silvery sides.

Suddenly there came a hesitating nibble at the hook and then, and then a vicious jerk. Leaping to my feet I began reeling in my line to gain a lead upon, quarry before he had recovered from the surprise of being so unceremoniously dragged along. But he suddenly made a dash for the bottom then up again and straight away from the boat, the line cutting the air with a swish. At last his rushes became less vicious and little by little I edged him nearer until at last I had him within grabbing distance. A quick lunge, a jerk and he lay upon the bottom of the boat slapping out his life. He was certainly a beautiful specimen of the silver salmon and more beautiful it being my first catch. Upon

reaching home weighed him and the needle went down to fifteen pounds.

**A. C.'s NEEDS FROM STUDENT VIEW POINTS.**

(Continued from Page 2).

have the building and room where the work can be carried out to the best advantage.

S. B.

**THE DORMITORY.**

At the present time, no new building is more needed on the campus of the Agricultural College than is the proposed Woman's Building. For four years an appropriation for the construction of such building has been asked for, but has not as yet been granted.

The Agricultural College, as all are aware, is a coeducational institution, but so far no provision has been made for dormitories to accommodate the large number of students which it now has in attendance, not even for the women students.

Up to the beginning of the school year of 1907 young ladies were forced to find homes and boarding houses thruout the city of ten times so far from the college as to be very inconvenient. Then too, these were very often not of the best and the price paid for board and room ranged all the way from \$3.75 to \$5.00 per week. It was observed that the number of women students decreased gradually year by year, the reason being that parents refused to send their daughters away from home to live among strangers where no interest would be taken as to their welfare.

The college realized the exact situation and did what they could to better condition by renting and repairing the only building available at a convenient distance from the college and fitting up for a girls Dormitory. Though an old building it was made to look as attractive as possible but at its utmost capacity can only accommodate forty girls. Living in this old building all is not as pleasant as might be supposed by the casual observer, for they must learn to do without a number of necessary conveniences, and in the cold

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winter months suffer a great deal from the intense cold.

Now, this winter term, there are registered at the college about 150 young women. Of this number perhaps thirty live in the city and this necessitates that eighty at least must room at a distance from the college and must put up with the surroundings wherever they are so fortunate as to find themselves. Fargo is a city of colleges, maintaining four, besides a high school and a ladies seminary, and this means that the city is over crowded with students, especially during the winter months.

Further more, the Agricultural College is the only one of the six state educational institution which is not provided with a Ladies Dormitory, although it is now in its nineteenth year of existence.

The proposed Women's Building according to the plans already specified will supply rooms for 125 women, and the dining room capacity will reach 200. It will also contain the department of Domestic Science which has long ago outgrown its present quarters, and cannot continue its important field of work in the Present situation.

The proposed Woman's Building would satisfy not only a long felt need of the Domestic Science department but also fulfill the need of a home for the large number of women students. It is a dream of the future which all women interested in the institution hope to realize this year.

M. T. '09.

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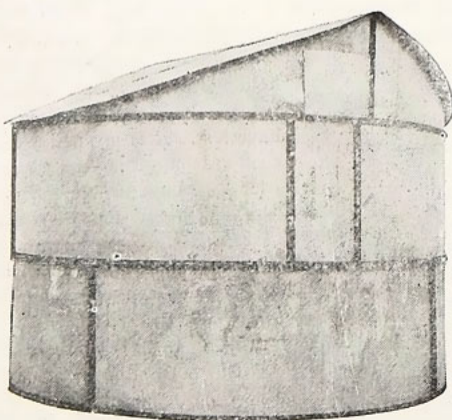
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**OUTSIDE WORK.**

Too many of the failures in recitation and the term's work are attributed to outside work. If a student has an inclination to go to class without preparing his lesson, it is very easy to plead that outside work was pressing him and he is let off with this excuse, when in reality the outside work that he is engaged in was not the cause of his failure in the least.

If the faculty would investigate more closely they would find that it is not the students that are doing the most outside work that are the lowest in their classes. The students that are responsible for the largest number of failure are not the ones that are doing the greatest amount of outside work, for the majority of them are not devoting five hours a week to work which is ordinarily termed outside work.

The fact that the standings of many of the students who are working their way through school and are actively engaged in outside work, show that they maintain a good grade in class, is proof that the work really engaged in is not the reason for so many failures. It furthermore points to the fact that there is something else responsible for poor work. This responsibility must be placed on the inclination the student has to study and his ability to do outside work and keep up with his school work at the same time. In other words it is the way in which the outside work is done that really counts and not the amount that is engaged in. This is true with athletics as well as the other work that is engaged in by the student. The amount that a individual student can do with out detracting from his regular work should rightfully be the determining factor in restricting a student's outside work and not what some students have failed to do. A distinction should be made between work and social pleasures.

**Public Opinion.**

**Intercollegiate Debating.**

Since the Athena—Philo debate shortly before the holidays, comment has been heard in literary circles at the college relative to an intercollegiate contest with some outside institution. Among the schools with whom the college might arrange a debate, the Montana and South Dakota Agricultural colleges seem to be the most promising.

While our school is largely on technical and scientific basis, there are these who take an interest in debates and have done much to raise the standard of this line of work in the past few years. Many creditable debates are heard in the societies as well as the regular literary society debates.

As debate work stands at present at the college, there is little or no incentive to revive the art to any great extent. If a man wins the oratorical he is made to feel that he will represent his own college in an outside contest and that the oratorical honor of the school rests solely upon him. Intersociety debates are valuable. They train for larger contests, they serve to maintain a healthy rivalry, and they build a foundation for the art on a larger scale. But it may be said here truthfully that a man's patriotism for his school as a whole is much larger and greater than his patriotism for his literary society. But if an intersociety debate is held without an intercollegiate contest in sequence then that much time and work has been absolutely wasted.

From a financial standpoint, the writer feels certain that either the Bozeman, (Mont) A. C. team or the one from Brookings, S. D., could be brought here of the N. D. A. C. team could go to either of those places without the loss of a penny to any one. Our intercollegiate debate here would certainly be a good drawing card here as it would in any college town. When an athletic team makes a trip the expense is necessarily great because of the comparatively large number which must be carried. In this case the number is very small thus cutting down to a minimum the expense.

Last year the Bozeman A. C. wanted a debate, but no one at the A. C. was sufficiently interested in the project to carry it. If this could be carried out, it would really be known who at the A. C. had debating talent, because of the great competition to get on the team.

**ABOUT DEBATES.**

Editor Spectrum:—  
I noticed your editorial on debates with a suggestion that some of us interested in such contests should say something about the subject. Now, while I have not the presumption to consider my-

self above the average of our A. C. debaters, I shall here outline a few principles that I consider worthy of at least a passing thought.

In the first place, our institution is not primarily a college that naturally develops talent of this kind. In fact, the only part of our training that has any tendency to promote public speaking in any form is gained almost exclusively outside the regular duties of the class-room. We have lately, it is true, been favored in this respect with the addition of a department in public speaking and oratory; but up to the present this department has been accorded neither the scope nor the facility for thoroughness in its particular line that would tend to even lay a good foundation in the training of students that should later make them good college debaters.

In view of the above facts, it is my opinion that only way we

can build up and develop this faculty in our students is to do the best we can with what little training we now have. I say, "Certainly, let us have debates, — public, inter-society, inter-department, inter-collegiate, — any kind, in fact, just so we have them." It is at such contests as a debate between societies, — where one set of speakers opposes another set, and proves the logic of their opposition, — that we see the highest type of genuine enthusiasm. Never since your correspondent came to the Alma Mater did he hear such unstinted cheering as at our public debate about six weeks ago. It was enough to make one on "the firing line" feel well repaid for long nights of anxious thought, win or lose. It showed to victors and vanquished alike together they had won a victory dear to every true student, — the victory of arousing loyalty in every member of either society.

We have held inter-collegiate debates during the past two years. It appears to me that we should hold another this year. In our debates of the past two years we have lost. It is my belief that in such a debate this year we should win. We have lost to Fargo College in debating and football, but beaten them in basketball. Can we not now beat them likewise in that highest contest of all, — the battle of logic!

John Magill.

Professor Willard in class: "When I turn this bottle up side down why does the water run out?"

Bright Student: "Because there is a hole in it."

Oh yes, we forgot to say last week that the Aggies got beat at Hendrum 42 to 8.

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**PERSONAL**  
Arthur Murphy enjoyed a visit from his father last week.  
Mrs. Donaghue has been ill for the past week, but is improving now.

Mr. Lembeke of the Junior Civil Engineering class is assisting in mechanical drawing.

Levi Thomas was confined for a short time last week with a attack of tonsilitis.

Magill has been shooting everything in sight for the past few days with his camera.

At the next meeting of the Polytechnic Society the members will be favored with a paper by Professor Waldron.

Mrs. Remington has been chosen to take charge of the play to be given by the Senior Class of the Fargo Highschool.

Fred Olson of the class '98 who resides at Sanborn sends word that he is the father of a fine baby boy.

"The Uncrowned Queen" was the subject of an address given by Professor Arvold before the Cathedral Club Monday night of last week.

Mrs. Minard is recovering rapidly from an operation for appendicitis. She arrived home from the hospital Saturday.

Olaf Hendrickson will deliver "Rip Van Winkle" at the Gethsemane Cathedral Club Feb. 10. He will also render a violin solo.

Professor Arvold is to give a talk at Hillsboro Saturday evening and at the Cathedral Club Monday evening.

Charles H. Clark, '08, has accepted a position at the Dickinson Sub-station as assistant in cereal and alfalfa breeding.

Gathering soil samples at this time of the year is rather strenuous work according to what Mr. Whitcomb says.

Professor Bolley went to Bismarck Friday to consult with some of the legislators in regard to the weed and seed bill he has introduced.

Chas Oshwald, '07, left the Pacific Coast last Wednesday where he expects to join his brother Albert who was also a former student.

Chas. Ruzicka says that he has lots of business to attend to since the Spectrum began advertising the dancing club. Have you anything to advertise?

The large classes in Agricultural Botany keep Professor Bergman rather busy. The class is making a large number of tests with the various farm seeds at the present time.

Professor Beckwith is studying soil fungi. A large number of cultures of soil from the plants of the Biological Department are being made.

Albert W. Thomas, of the present Senior class will assume his duties as an assistant in dry land farming at the Dickinson sub-station after commencement.

Oliver J. Grace visited the College last Wednesday consulting with Dean Shepperd preparatory to taking up his duties at the Dickinson sub-station as temporary superintendent during the absence of L. R. Waldron.

The members of the Polytechnic Society that gave voluntary reports at the meeting Wednesday

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evening were Professor Bergman Messers Fitz and Hughes.

The address at the Grand next Sunday evening, Feb. 7th, will be given by Miss Simons of the English Department; her subject will be "The Good Great Man, Abraham Lincoln".

As a result of too strenuous work during convention week, Dean Shepperd was somewhat under the weather a part of last week, but we are glad to see him about in his usual good spirits, again.

"Nick" Rindy, one of our former engineering students, was at the College Monday of last week to obtain his credits from the registrar. He left for Minneapolis the following day.

Dr. Van Es is giving a series of sixteen lectures on Hygiene in the city Y. M. C. course. The second number will be given on Wednesday evening of this week.

A large delegation of the faculty and students saw "Peer Gynt" last Tuesday. The criticisms of the play are of a rather varied nature and quite numerous.

Professor and Mrs. Brown are making preparations for their departure to their future home at Lexington, Kentucky; they will leave the latter part of March.

It was rumored about the College Friday that the Coach had been seen in an overcoat. On the same day it was also reported that snow was lying on the floor of the Freehand drawing room within two or three feet of the radiator.

Secretary Nagely arrived at the College Saturday morning from a somewhat extended trip in which he visited the University, the School of Forestry at Bottineau, and Philips Academy at New Rockford. He reports a pleasant visit at each of the above institutions.

Dean Shepperd received letters during the past week from Russia, China, and Honolulu requesting consignments of pedigree wheat and corn grown at our local station. This is some evidence of the reputation and growing importance of our College in the agricultural world.

C. M. Hennis has invested in a new valve trombone. Each evening Cat hies himself to the barn, after which in a few minutes melodious strains can be heard to issue therefrom, continuing with short intervals of rest, until about midnight.

Dr. C. F. Crewe, state veterinarian, was a visitor at the College Friday, consulting with Dr. Van Es and Prof. Richards in regard to some proposed laws which are at present before the legislature relative to the livestock industry of the state.

State High School Inspector, Mr. Heyward was a visitor at the College on Friday. He called to make inquiry in regard to the number of agricultural students graduating this year and how

many of them will be prepared to teach in the high schools of the state.

Dr. Bell gave an illustrated lecture to his physiology class Friday by the use of slides containing various tissues of animals. The outlines of the sections are thrown onto a screen by the projectoscope in the Biological Department. This class is so large that it is very difficult to find seating room.

Supt. O. A. Thompson of Edgely was at the College on Wednesday and Thursday of last week transacting business relative to the substation at that point. While here he arranged for John Henderson of last year's Farm Husbandry class to go to Edgely at the end of this winter term as an assistant in the field crop work.

L. R. Waldron, superintendent of the sub-station at Dickinson, was at the College Friday conferring with Dean Shepperd. Mr. Waldron was on his way to Washington, D. C., after which he goes to Cornell. There he intends to spend six months studying along plant breeding lines under Dr. Webber, an eminent authority on that subject.

**HOVOC OF "COFFIN NAILS" IN CLASS ROOM.**  
Prof McKeever of the Kansas State Agricultural College, selected fifty cigarette smokers and fifty non-smokers and compared their averages for a term. The non-smokers made an average of 80 per cent against the 62 1-2 per cent of the smokers. The smokers made 81 per cent of the failures in studies.

**MR. COUTURIER VISITED BAND PRACTICE MONDAY.**  
Mr. Couturier was the guest of Dr. Putnam a week ago Monday and was present at band practice in the afternoon. After listening to a number of pieces by the band he kindly consented to play for them on his cornet and gave an exhibition of his wonderful skill on that instrument, which was greatly enjoyed by the band men. After this he gave a short talk on the construction and varieties of cornets and told of the points to be considered in selecting an instrument. He also gave numbers of helpful suggestions in regard to the playing of wind instruments in general and cornets in particular.

**PROF. SLOCUM INSPECTS GAS WELL AT REYNOLDS.**  
Last week Professor Keene received a letter from a farmer near Reynolds, N. D., who had struck gas in a well on his farm and asked how the gas might be gotten under control. From the letter it appeared that the gas was in a large enough quantity to be of value and Wednesday Professor Slocum made a trip to Reynolds to inspect the well. In this case as in many others the true amount of gas proved much smaller than reported, giving only about a pound pressure so that it will prove of no practical value.





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Again the attention of the students of the Agricultural and Engineering Courses is called to the annual prize essay contest. This contest is arranged and managed by the Instructor in Farm Mechanics and the prizes are offered by the different manufacturing companies which are named below. This contest is proving to be one of the things which the short course and Farm Husbandry students are especially interested in as it not only affords them an opportunity of competing for the prizes but also gives them practice in writing in a practical way that is offered in no other way.

The following is a list of the prizes offered together with the rules governing the contest:

1. J. I. CASE THRESHING MACHINERY MANUFACTURING COMPANY PRIZES—For the best essay on "The Reasons Why Steel Separators are Superior and More Popular than Wood Separators." First prize, \$10.00 in gold; Second prize, \$5.00 in gold.

2. THE CHAMPION POST MACHINE COMPANY PRIZE—For the best essay on "Cement Posts and Their Construction on the Farm."

Prize. One Champion Fence Post Machine; list price \$15.00.

3. THE VAN BRUNT MANUFACTURING COMPANY PRIZE—For the best essay on "Cement vantage of Drilling over Broadcast Seeding and the Essential Features of Grain Drills for North Dakota." Prize, \$25.00.

**RULES AND REGULATIONS**

1. There shall be at least four competitors for each of the above prizes.

2. The competition shall be open to all students taking the four year course in agriculture, the short year course in agriculture, schedule A or B of the winter short course, and students in engineering are admitted to this contest.

3. No student who has competed for a prize last year shall be allowed to choose the same subject this year.

4. No student shall compete for more than two prizes.

5. No one having won two prizes in previous competition shall be allowed to compete.

6. Post-graduate students are barred from this contest.

7. A student wishing to compete for any of the prizes shall hand his application to the Instructor of Farm Mechanics not later than February 24th, 1909.

8. In each competitive trial three judges shall be selected to award the prize, who shall not be officially connected with the Agricultural College in any capacity; said judges to be chosen as follows: One shall be chosen by the President of the College, one by the Professor of Agriculture,

and one by the company offering the prize.

9. All judges shall be chosen and their names reported to the Secretary of the Agricultural College on or before March 9, 1909. If the judges are not appointed by that date, or if, for any reason, vacancies should occur the President of the Agricultural College shall make appointments to fill such vacancies.

10. The jurors in awarding the prizes shall base their decision as follows: The thought of the essay as related to the subject discussed shall count eighty points. The literary merit and grammatical construction shall count twenty points. Each judge shall grade the essays, giving the one having the highest aggregate per cent first place and so on.

11. When these essays are received together with their grades the place number assigned each essay, by the different judges, shall be added, the smallest number in each case awarding the prize. In case of a tie the prize shall be awarded to the essay having the highest aggregate per cent. This grading is to be done under the auspices of the Dean of the Agricultural Department.

12. Each essay shall be typewritten before placing in the hands of the judges, and five duplicate (carbon) copies shall be made and placed in the care of the Secretary of the Agricultural College, one copy to be forwarded to each judge and one to the company offering the prize. The original copy of the prize essay in each contest shall become the property of the Agricultural College and shall be kept on file in the College Library.

13. No essay shall exceed 2,000 words in length.

14. All essays shall be in the hands of the judges on or before March 23, 1909.

15. The prizes shall be awarded as soon as the returns from all of the judges have been received.

16. If any questions should arise which do not come under the above list of rules and regulations, they shall be submitted to the faculty of the North Dakota Agricultural College.

**DR. PUTNAM TO DIRECT**  
**NEWBAND AT GARDNER.**

A new band just being started at Gardner a few miles north of Fargo. This band will be directed by Doctor Putnam and although the members are nearly all beginners, "Doc" expects to put them into good shape in a short time. He will go to Gardner every Saturday afternoon and return the same evening. It is impossible to say just what instruments have been obtained or how many will take instruction till the band is organized.

**OPEN SAT. AFTERNOONS.**

Until further notice the Library will be kept open all Saturday instead of only in the morning as has hitherto been the custom. This will accommodate the many students who have no place to go Saturday afternoons but don't wish to stay in their rooms and also those who are busy at other work in the morning.

If the engineers are looking for a model engine to use in their studies, just visit the creamery. There is one over there.

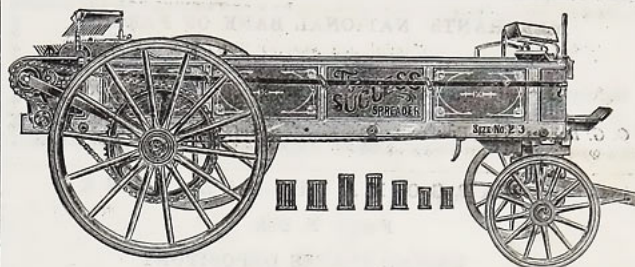
Student's definition of Hades: "It is the lower world where people go after death. The bad people have to work."

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