

THE WEEKLY SPECTRUM

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NORTH DAKOTA AGRICULTURAL COLLEGE, TUESDAY, DEC. 14th, 1909.

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Annual Football Banquet

Football Men Banqueted Last Friday at Francis Hall.

Domestic Science Girls Prepare and Serve a Commendable Dinner.

Capt. Haskins Presented with Beautiful Memento.

For some time past Manager Dynes has been preparing for the annual banquet which was given last Friday evening by the College in honor of the 1909 football teams. The guests were comprised of the Athletic Board, the members of the second team, the Fargo High School team, Coach Kambauch, and several from the city.

Shortly after six o'clock the guests began to assemble at Francis Hall. At six thirty Coach Reuber marched into the reception hall followed by over sixty guests. After finding their respective places, the company sat down to partake of a dinner that will be remembered in days to come.

Much credit is due Manager Dynes for the management of the preparations, and one needs only to listen to the remarks of those present to realize the credit due the Domestic Science Girls for the preparation of the menu, which was certainly first class. The following is a copy of the menu slip:

"Eatings."

- Fruit Cocktail
- Bivalves Steeped in Milk Crackers
- Bull Turkey, Full Dress
- Dragonsblood Sauce
- Spuds a la sautimage
- Brown Grease
- American Tartar Co.'s Bloaters
- Peas in Tub, chalked
- Spud Shavings
- Bread and Smear
- Salad, Dutch in Style
- Bran Bread Sandwiches
- Apple Pie with Shivers
- Coffee and Chips
- Embalmed Almonds
- Case or Binding
- Mints

Prof. Keene Master of Ceremonies The program which immediately followed the dinner was very short and informal owing to the fact that several of the speakers were unable to be present and a large number wished to attend the Inter-Society debate.

Prof. Keene opened the toasts by calling on Manager Dynes to give a few reminiscences of football players of the past, but instead he explained the necessity of making the toasts brief and to the surprise of all, after a statement that a new custom had been introduced for the purpose of expressing the appreciation of the college for past services on the gridiron, an emblem of remembrance for the receiver, and an encouragement for men to come, Manager Dynes presented Captain Haskins with a beautiful gold memento in the form of a football on which was engraved the A. C. monogram, his initials, A. B. H., and the dates of the four years he had represented this institution, '06, '07, '08, '09. His team mates were exceedingly

A. Z. Dance

A. Z. Fraternity entertain a good Crowd.

Last Saturday night occurred the 1st Annual Ball of the Daotah Chapter of the Alpha Zeta Fraternity. Being a success this year the fraternity has decided to make this an Annual affair.

The colors which were made and sky blue were arranged very artistically across the Armory. To carry out this arrangement pennants of different institutions were suspended from the decorations, and extended from one end of the Armory to the other. Pennants were also displayed upon the side of the balcony. A unique decoration was made at one end of the Armory where the basket ball was supposed to be. It consisted of the colors arranged in the shape of a box with the letters A. Z. on the side. Behind this there was a light which brought out the colors very nicely.

Dr. Putnam's orchestra rendered an excellent program was enjoyed by every one present. Especially was Home Sweet Home enjoyed as it was danced in a subdued light, which appeared under the balcony.

This dance being so near the end of the term—when students are preparing for examinations and because of the fact that there were several things going on in the city of Fargo, the crowd was slightly below the average but was well attended by students and faculty.

Foot Ball Men will receive Monograms and Sweaters.

A dance will be given some time in January for the purpose of raising a part of the funds necessary. The Management will provide for at least one third of the amount. This dance will deserve the support of every student in the institution.

Students of German are going to try a new plan. They will aim to get to class at eight in this way making sure to get there at ten after. Heretofore they have aimed to get there at 8:10 and have arrived at 8:20.

"Ain't it funny that some fok's you can't miss, An' some folks you jus' miss a pile? An' the fok's that you can't miss, you see lots, An' the other folks, once in while."

pleased to see their captain, who had won their admiration by his square deals on the gridiron, presented with this token of remembrance. An enthusiastic encore was then given to which Capt. Haskins responded by a short talk in which he bade the gridiron farewell. Although he can never represent the institution again, his heart and sympathy will always be with the Old A. C. The program was concluded by a few words from Captain-Elect Walter Haskins, inviting the '09 players back again and thanking his teammates for the honor they had conferred upon him.

More Excitement

WHO WILL GET THAT TURKEY?

You undoubtedly all remember the turkey race of last year. It is reported that there will be another such an event this year, on the twenty-first of this month. Several entries have already been made and the whole matter is being pushed with force.

Even says it has been a long time since he had his fill of turkey, and Otto is making motions toward getting a smoother track than they had last year, as he still feels the effects of that fall.

Beside the turkey, there will be awarded several other members of the feathered family, so that the first man will not be the only lucky one. This race will be something worth entering, and something that all of our students and faculty members should see.

HOW THEY DID IT.

Much interest was aroused last week over the 42-cent dinner served by two of the Domestic Science girls, Louise Campbell and Ella Heidner, to six members of the faculty. It may be of interest to know just how this was accomplished. Below is given the articles used and the cost of each.

| | | | |
|--|-------|-------|-------|
| Beans, 14 oz. at 3 lbs for | 25c | | \$.06 |
| Pork, 3-4 lb. at 15c per lb. | .33 | 3-4 | |
| Sugar, 5-8 lb. at 4c. | .33 | 3-4 | |
| Butterine, 4 oz. at 25c lb. | .06 | 1-4 | |
| Milk, sweet, 3c; sour, 2c. | .07 | 1-2 | |
| Potatoes, 1-1-2 lb at 40c bu. | .01 | | |
| Coffee, 1-1-2 oz. at 40c lb. | .03 | 1-2 | |
| Bread, 3 oz. stale, at 2-1-2c loaf | .00 | 1-2 | |
| Eggs, 2 at 30c per doz. | .05 | | |
| 1-2 Lemon at 30c per doz. | .01 | 1-4 | |
| Graham flour, 2 oz. at 35c per 10 lbs. | .01 | 3-4 | |
| Molasses, 1-4 oz at 80c per gal. | .01 | | |
| Condiments | .01 | | |
| Total | | \$.42 | 1-2 |

Owing to eighty-cent molasses being used instead of the usual fifty-cent brand the cost ran 1-2c over the fixed 42 cents.

OBITUARY.

Mr. Gilbert Crummett, of Detroit, Minn., died last Friday night of tuberculosis. Mr. Crummett graduated from the course in Pharmacy one year ago last spring.

Mr. Crummett was an exceptionally bright young man, an excellent musician, and of a most cheerful disposition. His friends were as numerous as his acquaintances and few students exercised a better influence upon the activities of the college.

NOTICE.

Lost.—Several associate editors. Finder please deliver them uninjured to the Spectrum office and receive a fitting reward.

The Irving Dramatic Club will appear at the Ideal again on Friday night, the 17th. This will be their crowning effort and every one who possibly can, should attend. The pictures which they will present will be high class.

Philos Win

Crimson victorious in Spirited Debate Friday Evening.

Friday evening the second Annual Joint Debate between the Philomathian and Athenian Literary Societies was held in the College Chapel, which resulted in a victory for the Philomathians. This gives them possession of the Banner until the next inter-society debate and if won twice in succession by one of the societies it becomes theirs permanently. The Chapel was tastefully decorated in the colors of the societies. The east side was occupied by the Philomathians and the west by the Athenians. Harold McKinstry was president of the evening and Agnes Halland acted as timekeeper. The first number on the program was a well rendered vocal solo by Mabel Piers. The other musical number was a piano duet by the Misses Peterson, this was so well given that they were called on to respond to an encore.

The feature of the evening however, was the debate. The affirmative was upheld by Messrs. Towle, Olson, and Neraal, while the negative was supported by Messrs. Anderson, Dyke, and Ford. Both teams were a credit to their societies. Each speaker held the rapt attention of the audience from beginning to end. Anderson's and Ford's humor helped to enliven the evidence of the negative side. Dyke gave a clean, logical and conclusive argument which went far to the winning of the debate. Peter Olson was the strongest speaker on the affirmative side, not only having an unusually good delivery, but demonstrating his side with convincing statements. Towle and Neraal ably defended their side with earnest straightforward arguments. The society yells were given with much spirit at frequent intervals before and after the debate. The Philos were at somewhat of a disadvantage, in this respect, because of the absence of their yell leader.

The judges were Attorney Witherow of Moorhead, Attorney A. W. Cupler of Fargo and Prof. B. G. Marten of Concordia College. Witherow was the spokesman for the judges, and said that both sides were deserving of much credit, and, moreover, that it was the best debate he had ever heard given by young people. But the negative having produced the best arguments, on the whole, were given the decision on a narrow margin.

BASKET BALL SCHEDULE.

The first game of the season will be played Jan. 8, with Valley City Normal at Valley City. The second game will come on Jan. 15, with Mayville or Concordia here. Other games have been arranged as follows:

- Jan. 17—Wahpeton Science, at Wahpeton.
- Jan. 19—Brookings, S. D., at S. D. A. C.
- Redfield, Huron and Aberdeen Normal will be played on the same trip. Dates are not as yet

CONVOCAION.

Rev. Chas. R. Adams, pastor of the Presbyterian Church, will deliver the address at convocation exercises December twentieth. His subject will deal with Christmas and will be a preparation for the proper spirit in the coming holidays. This will be the last exercise for this term. The holidays come at the close of this term and we trust there may be a spirit of restfulness and good will in the hearts of faculty and students.

Push It Along

Professor Arvold has received several letters from the South Dakota Agricultural College in regard to the talked of inter-collegiate debate between that institution and our own. The South Dakota debaters seem to be very much in favor of such a debate, and it is hoped that our men will take up the matter and push it along. We have some good debaters in our institution, and there is no doubt about our leading them a merry chase. If the present plans are carried out, this debate will be held in Fargo, about the first or middle of April. It will be the first of its kind, and is expected to be one of the events by which this school year will be remembered. Of course, the contract will call for both this year and next, the next year's debate being held at Brookings.

There has always been a friendly feeling between these two institutions and something of this kind would be a great factor in retaining the close relations. It is very natural that students of two institutions of the same class, as these are, should meet in some such way.

A challenge for a debate has also been received from Fargo College, but this matter will rest until the South Dakota debate is settled. It is stated that Fargo College has some good debaters and the matter will no doubt be worth considering.

Walter Haskins will Captain the Team of 1910.

A meeting was called last Friday evening just before the banquet for the purpose of electing a captain for the coming foot ball season, all who had played on the first team were eligible to vote. Walter Haskins was elected to the position by a unanimous vote. We know that Walt will be there and will see that there is no "Tread on Us."

definitely decided.

Jan. 22—Jamestown College, at Jamestown.
Jan. 29—Valey City Normal, here.
Feb. 5—Fargo College, at Fargo College.
Feb. 12—Either Wahpeton or Mayville.
Feb. 19—U. N. D., here.
Feb. 26—Fargo College, here.
Mar. 5—Open.
Mar. 12—U. N. D., at Grand Forks.
This will practically close the season.

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POLYTECHNIC LECTURE

By Prof. Householder.

A HISTORY OF NUMBERS.

Counting has existed among peoples of all grades of civilization from the beginning of the human race. Lower animals can count their young to a certain extent. But when the nature and condition of the objects have been of no consequence in the formation of numbers there human counting first begins. The oldest and most elementary counting was merely a process of reckoning or of putting together, and possibly in special cases an elementary multiplication performed on the objects themselves, or on other objects easily employed, such as pebbles, shells, or on the fingers. From this arose number names. The most common of these undoubtedly belong to the primitive domain of language. But with the advancing development of language their aggregate was gradually enlarged, and the possible combinations of single terms permitted and favored the creation of new numbers.

Finger reckoning was practiced by people of all ancient civilization and is carried on today to a certain extent among many savage tribes. Certain South African tribes use three men to count numbers which run into the hundreds. The first counts the units, the second the tens, and the third the hundreds. The first counts continuously while the other two raise a finger each time a ten or a hundred is reached, and they always begin to count with the little finger of the left hand and count toward the little finger of the right hand.

Among the South Australian tribes, the binary system is almost universal. This is likely due to the fact that the hands, feet, eyes and ears occur in pairs on the normal individual. These tribes are not advanced enough to have a system of symbols, for such a development would proceed to a higher and more convenient number base. This system is seen in their words as three is two and one, four two and two, five two, two and one. The South American tribes also use this system.

From this binary system we catch a glimpse of our slight conception of the infinite totality of numbers in noting that any number that can be expressed by our ordinary decimal system can be expressed by this binary system and that even tho we had a thousand or a million place system we could add no new numbers to our present list.

The ancient nations each had a number system peculiar to itself, and it is very noticeable how their progress along scientific lines fell behind their progress in all other lines, all on account of the clumsiness of their number system.

The Egyptians had numbers running from right to left in the hieratic writing and in varying directions in the hieroglyphics. In the latter the numbers were written in words or represented by symbols for each unit and repeated as often as required. In one of the tombs near Gizeh, have been found hieroglyphic numerals in which a vertical line represents one, a kind of a horseshoe, ten; a short spiral, one hundred; a frog, one hundred thousand; and a man standing in the attitude of astonishment, one million. In the hieratic writing the symbols for the unit of the higher order stands to the right of the one of lower order in accordance to the law of sequence already mentioned. The

Papyrus Rhind of the British museum contains practically an Egyptian arithmetic. A striking peculiarity of this arithmetic consists of the work in fractions, which was confined almost wholly to unit fractions.

The origin of the Roman numerals is lost in obscurity, but undoubtedly they are from Etruscan sources. One theory is, that a cross was used to separate the vertical marks used for units into groups of tens each, and that a mark was in turn used to group together these crosses into groups of ten, and that the mark M was used to group together ten of these. These marks were afterwards divided, and half of them were used to represent half of the original value, as, V or A equals 5; L or F equals 50; and N or d equals 500. These signs were gradually changed into the similar Roman letters X, V, C, L, M, D. The Romans had a system of fractions with twelve and its multiples as denominators. At first one-twelfth was a concrete unit of length or weight.

The Roman method of calculating on a reckoning board or abacus was one of the vital factors in the development of our present decimal place system. The abacus in its most primitive form was a board covered with sand on which could be traced parallel lines. These stood for units and the different powers of ten and a short cross mark on these lines represented a unit, a ten or a hundred, as the case might be.

By means of this abacus addition and subtraction could be carried on very readily, but multiplication and division was next to impossible for the common people. The Chinese swanpan is a development of the Roman abacus and consists of a frame strung with wires with counters on these which can be shifted.

It seems that with special symbols for the nine units a symbol for a blank space would have been an easy step but it was a step which took centuries to achieve.

For the first thousand years of the christian era the alphabet system held full sway and then for four or five hundred years the Roman and the Greek systems were competitors for popular favor among the European arithmeticians.

Of all the ancient races the Hindus occupied themselves most deeply with numbers. It is generally supposed that the first development of the Hindu, commonly called the Arabic place system was due to some oriental scholar who was familiar with the ancient Babylonian system. Having symbols for one to nine such as existed in India as early as the second century and acquaintance with the progress made by the Babylonians may have suggested the step to the decimal system and the innovation of zero or a cipher.

The origin of our nine digits as they are used today is obscure and much disputed, but it seems quite likely that the symbols 4, 5, 6, 7, 8, 9 are derived from the initial letters of the corresponding words in the Indo-Bactrian alphabet in use in the northern part of India about 150 years B. C. The symbols for two and three are derived respectively from two or three parallel strokes written cursively and represent a single stroke. Numerals of this written cursively and 1 represents a single stroke. Numerals of this



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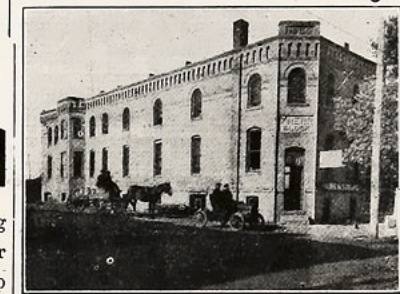
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type were in use in India before the end of the second century of our present era. The origin of zero is unknown but it is possible that originally it was a dot inserted to represent a blank space, or it may have represented a closed hand. It is thought that it was introduced into India towards the close of the fifth century A. D., but the earliest writings now in existence which use it, date back only to the eighth century. The numbers used in India in and after the eighth century are termed the Devanagari numerals. These forms were slightly modified by the Eastern Arabs, and the resulting symbols were again modified by the Western Arabs or Moors. The symbols finally used by the Arabs are called the Gobar nu-

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merals. From Spain or Barbary and the advantages of the Algorithmic system led to its adoption in Italy for mercantile purposes, though not without serious opposition on the part of some of the people. An edict was issued at Florence in 1299 forbidding bankers to use arabic numerals, and the authorities of the university of Padua in 1348 directed that a

(Continued on Page 3.)

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POLYTECHNIC LECTURE.
 (Continued from Page 2.)

list should be kept of the books for sale, and that the prices should be marked in letters and not in figures. The rapid spread of Arabic numerals and arithmetic through the rest of Europe seems to have been quite as largely due to makers of almanacs and calendars as to men of science and merchants. These calendars had a widespread circulation during Mediaeval times, and they were of two distinct types; some of them were composed with special reference to ecclesiastical purposes and contained the dates of the different festivals and facts of the church for a period of seven or eight years in advance as well as notes on the church ritual. Nearly every church possessed one of these, and many of them are still in existence. Those of the second were written especially for the use of astronomers and physicians, and the better specimens contains notes on various scientific subjects, especially medicine and astronomy. These were not uncommon, but since it was only rarely that they found their way into a public library, specimens are now very scarce. It was the custom to use Arabic symbols in all ecclesiastical works while their occurrence in all astronomical tables, and their oriental origin secured their use in both kinds of almanacs and there are few if any specimens of calendars issued after 1300, in which an explanation of their use is not also included.

Towards the middle of the fourteenth century the rules of algorithmic arithmetic were also inserted and by 1400 we may safely conclude that the Arabic symbols were pretty well known throughout all Europe and were used in most scientific and astronomical works. Most merchants outside of Italy, however, continued to keep their accounts in Roman numerals till about 1550, and monasteries and colleges till about 1650. No instance of a date or number being written in Arabic numerals is known to have occurred in any English Parish register or on the court rolls of any English manor before the sixteenth century. A frequent and free use of the zero in the thirteenth century is shown in the tables for the calculation of the tides at London and of the duration of moonlight. In 1482 the first German arithmetic with page numbering in Arabic numerals was published in Bamberg. After the development of the decimal place by the Hindus, it still took several more centuries to take the step to decimal fractions. As has been noted before, the progress of a nation in scientific lines depends largely on its number system and it is not too much to say that our modern scientific development would be impossible without our present number system. We have seen how slow the civilized world was to accept the reform as to numbers, and we still see it today in the hesitancy shown by the United States and England in adopting the decimal scale in weights and measures. This scale is in common use in scientific work now but it is not used at all by the people as a whole. Our arithmetic would be far easier were it adopted, for it would do away with all trouble in memorizing the different numbers of each table. As it is now, there is no uniformity outside of our table of money in any table in our list of weights and measures. These tables have to be learned ab-

stractly as there is no common connection between the different denominations of any one table. If each had a common scale it would be far easier to learn, and still easier would it be if all the tables had the same scale, even though it was not the decimal scale.

Now in looking back over the progress made by the ancient civilizations along scientific line, we see that in every case it failed to keep pace with that made along all other lines. All this was due to the fact that their number systems were so bunglesome. Doubtless they had as smart men as we have today, but they could do practically nothing in the sciences which are based on applied mathematics, because they had not a practical system of representing numbers and quantities, and it is not too much to say that our progress made today would be impossible were it not for our decimal place system which can be readily used in all cases, both in integral and fractional numbers.

FAITH.
 (Rosabell Magill.)

Faith is necessary to the happiness of mankind. Loss of faith in regretted by the loser. A strange blakness has come over his life. His lonely hours are passed in barren and sombre thoughts; a cry rises to his lips, but never passes them.

The truths of which we are most certain are not the truths we reason out. Deep down, back of the reason and behind it, back of the eye and ear, are the truths that lie in our very nature and come to us through the reason, but are independent of the reason.

In science, life and history man can study and understand just so far, then he meets a shadowy line which he cannot see or reason beyond. He finds that there must be the spirit, the will, the intelligence of a Creator. Then comes to him the faith that at the heart of human nature there is someone working out a kingdom of justice, of liberty, of truth, and of love. This faith inspires him and leads him on. He can not prove it. But hope that is seen is not hope, for what a man seeth why does he yet hope for it.

Faith is belief without proof in matters where proof is not possible. It is like looking at the wrong side of a piece of cloth on the loom. We can only see the crude mingling of colors, the pattern is not plain to us. Only once in a while we catch a short view of the plan of the pattern. In the same way we can not see the perfect pattern which God is working out. We sometimes get a glimpse of it, and this gives us faith to persevere to the end.

Love is the answer to literature, and hope is the answer to history, and faith is the answer to science, and God is the answer to all.

Chief War Eagle has offered to come out to the A. C. to teach wrestling and physical culture, thus keeping himself in training for the matches that he has arranged. He has a letter of introduction to the Haskin boys to whom he will present the offer. As yet we have not the proper mats for wrestling but they could be easily obtained.

The members of the Agricultural club are planning a declamatory contest between the members of the short courses. This contest will be held Feb. the 18th, and three valuable prizes will be awarded.

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Published every Tuesday of the school year by the students of the North Dakota Agricultural College, at Ulsaker Bros., 207 Broadway, Fargo, N. D.

J. Allen Clark, Publisher

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The officials of "The Weekly Spectrum" have kindly given the issuing of the College paper for December 14, into the hands of the class in English VII. The success of this number (if there is such) will come not alone thru the efforts of this class, but from the kindness and many helpful suggestions tendered by the regular officers.

This paper represents our college life, and our college atmosphere. All phases of work carried on in this institution find mention at some time in its columns. Just as the floating colors, the streaming banners, and the college yells represent the college spirit at all the athletic contests, so should very word of this paper reflect the educational spirit of our school. There must be a balance in all things, so let all endeavor to show the same spirit for this paper and its management, as is shown for Athletics and its promoters. A little thoughtfulness and seriousness on the part of each individual connected with the school will give the desired result and "The Weekly Spectrum" can be here added as a model college paper.

Some institutions edit their papers in a neat pamphlet form. This requires more work, but the editions are not so frequent. Such publications are so arranged that there are one or more articles in each that make every subscriber desirous of keeping and filing all copies. The professors of the different departments of such institutions write interesting and valuable expositions. In our agricultural college where there are so many different things that appeal to all minds, a series of such articles would be of inestimable value to all students. The professors would surely aid in this project

as it is to their interest to make this school and its work worth while. If there be a few hysterical jerks along the line nothing moves, but by the united efforts of all the task is accomplished. Shall "The Weekly Spectrum" receive the undivided support along all lines by each individual of the College?

The members of the class, English VII, wish to thank the Spectrum officials for their kindness and thoughtful aid. Our fellow students are requested to give the ideas presented serious attention and thought. May our paper always stand for the highest and the best and in this way represent our college and ourselves to the community at large.

President Worst received another letter from a Minnesota town, asking him to recommend an A. C. graduate to teach agriculture in its high school. Quite a number of applications of this character have had to be turned down for the reason that every agricultural graduate usually has a position waiting for him some time before Commencement Day.

The opportunities for useful and remunerative employment are increasing more rapidly than the supply. Hundreds of young men and young women, who have to make their own way in life, could do no better thing for themselves or for their country than to take a graduate course at the Agricultural College. It might require considerable sacrifice and effort but the prize is worth the winning.

Quite a few of the teachers of the County Schools have had their children enter into the contest of collecting weed seeds. The children collect samples of weed seeds from any source available. In most cases they gather the seeds from roadsides or from grain bins. Each is properly numbered, a small package of similar number being kept at home. They are forwarded either by the children or by the teacher, to the Seed Division, Department of Biology of the North Dakota Agricultural College, where each sample is properly named and the information sent back to the pupil who makes the collection. Some of the children have made quite extensive collections, the largest one yet offered being fifty different kinds of seeds.

The Department of Biology is also finding a great demand for the collections which have been put up for teachers aids, namely, the weed seed collection and the plant disease collection. These are sold to the school officers of the state or to teachers, or to any one interested, at the cost of production, the work being done by students at the Agricultural College. Anyone wanting either the weed seed collection or the plant disease collection should write to the Secretary of the North Dakota Agricultural College.

During the past week Professor Bolley's office force has been busily engaged in summarizing the

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reports sent in by farmers upon the results obtained by them in the co-operative experiments upon wilt resistant flax, and also in preparing an Experiment Station Bulletin upon Seed Disinfection and Seed Disinfecting Machinery, which will be ready for the press about January 1st. This will be a neatly illustrated bulletin, and while it contains some records of new investigation it is primarily intended for an educational bulletin regarding the possibilities and advantages of disinfecting farm seeds.

Educational Department.
The educational department is offering an unusually strong course. A number of students who will be fitted for high school work are expected to graduate from this department in the spring. Some of the work offered by this division of the college during the winter term are Psychology, Education in the United States, School administration and General methods. This work is a new phase of the College and is now becoming one of the leading departments as the

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courses offered are very strong and very beneficial to all no matter what line of work is expected to be carried out.
Prof. Weeks of the Educational Department is to deliver some addresses before the following associations: Teachers club, Dec. 18, Subject, "Seeing What Will Happen." N. D. E. A. at Minot, Dec. 28-31, Subject, "Ways by which the Higher Institutions may be of Service to Rural Communities."
The wise looks of this weeks Spectrum staff served as a magnet for all persons having doubtful questions, irrespective of their nature. A gentle knock was heard at the Spectrum door, which was opened by one of the members. There stood a big husky fellow in the extreme stages of bashfulness. His question was, "May I come here to school to learn engineering?"

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INFORMAL MUSICAL.

By Voice and Piano Pupils of Miss Grasse.

An informal musical will be held by voice and piano pupils of Miss Grasse Thursday afternoon at four-thirty in the rehearsal hall of the music building. All pupils of Miss Grasse are excepted to be present and all other students and faculty, who are interested in this department are cordially invited to attend. Those who are to appear on the program are: Misses, Lettner, Hunt, Brown, Woodward, Hull, Herron, Robinson, Olson, Peterson, Shelton, Piers and Prof. Householder.

THE Y. W. C. A.

The regular devotional meeting of the Y. W. C. A. was held in the dormitory parlors last Wednesday night with Grace Shelton in charge. The subject, "Idol Worship," was presented in a very pleasing manner.

The mission study class will convene next Wednesday, Dec. 15th. A full attendance is desired as some outside speaker will be present.

Y. M. C. A. HOLD MEETING.

The social held by the Y. M. C. A. last Wednesday night was exceptionally well attended. Dr. Bell gave a very interesting talk on "What We Live For." Then the young men gathered around the piano and sang a few hymns to Mr. Yerrington's accompaniment. Immediately after the program, light refreshments were served which were appreciated by all. This was by far the most successful meeting held for some time. All spent an enjoyable evening, and it is hoped that hereafter by continuing these meetings a greater interest will be taken in the association.

Notices will be placed on the Bulletin Board announcing the next meeting. It is the desire of the association to have every student present who can possibly come. The Y. M. C. A. rooms are on the second floor of the old Mechanical building. They are comfortably furnished and you are welcome to them at any time to spend your leisure moments.

PHILOMATHIAN.

Music, Quartette.
Field's "Auto Analysis, Agnes Halland.
Declamation, Miss M. Keene.
Violin Solo, Wm. Bell.
Life and Works of J. W. Riley, Mr. Ueland.
"The Old Swimming Hole," Mr. Olson.
"The Bear Story," Clarence Waldron.
Selection, Orchestra.
Critic, Prof. Arvold.

HESPERIANS.

The following program has been arranged for the next meeting of Hesperians, to be held Dec. 17th:
Rollcall Quotations
Original Story T. E. Mills
Reading D. Hendenhall
Song Storland Brothers
Declamation D. Brinton
Essay J. E. Kerek

DOMESTIC SCIENCE

GIRLS SERVE BANQUET

The Football Banquet served Friday evening, was under the management of the Domestic Science Department. The cooking was done by the freshman class of this department. Much credit is due them for their prompt attention and because of the excellence of their cooking. The serving was done by Cooking Class IV. Everything was systematically carried through. Miss Hoover and the girls are to be complimented on the way matters were conducted.

NEW DOMESTIC SCIENCE COURSE

To Be Installed Next Year.

Next year the present Short Course in Domestic Science will be merged in a five months' term. This will begin about the middle of October and extend to the middle of March. Thus coming at a time when the farmers' daughters will be free to attend.

This course in no way competes with the present Domestic Science course, and is not intended to train students as teachers of this science. It will be called the Housekeeper's and Homemaker's Course, and will be distinctly practical. Its aim will be to make good housekeepers and homemakers of the farmer girls of North Dakota. This no doubt will be a very popular course and bring large numbers of girls to our institution each winter.

AGRICULTURAL CLUB HAS SUCCESSFUL MEETING

Impromptu Speeches a Feature.

Last Saturday evening the Agricultural club had one of its most successful meetings. The program was not made up of a large variety of parts but what it lacked in quantity it made up in quality.

The first number on the program was an essay by Perey Donnelly with the topic "Baby Beef." The essay was well given and brought out clearly the place that "baby beef" now holds on the market.

The address of the evening was given by Mr. H. J. Hughes. He spoke very interestingly about "Farmers' Organizations" and showed what the advantages of such organizations were. Numerous examples were cited where such organizations have met with marked success in Denmark and Holland and even in parts of the United States, chiefly in Wisconsin. He gave as a reason for the rather poor success of such organizations in the Northwest the

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fact that there has been too much graft in the trials and the sharper men have soon gained the control of supposedly mutual organizations. The suggestion was made that different localities each form a mutual organization with one definite object in view, and then have all these organizations connected by means of the Agricultural College, which would act as an advisory body. In concluding, Mr. Hughes stated that he thought such a system would probably be a long time forming but that eventually it would prove a success.

Following Mr. Hughes' talk came another interesting part. This was the impromptu speeches. The subject-matter of most of these talks was suggested by Mr. Hughes' address and many favorable comments were made on his suggestions. Few of the speakers had spoken before an audience before and considering this fact they all did remarkably well. It is to be hoped that this practice will be encouraged in the future, as it is one of the most important factors in the making of successful societies.

Just remember Father and Mother with a present of one of those Artistic Platinotypes Made by Swen Studio, 112 Broadway.

General Remarks from Last Year's Military Inspection.

I inspected 80 cadets: field, staff, band, and one company. One rifle was rusty; the rest were in fair condition. Most cadets were fairly well set up. Condition and fit of uniforms generally fair. Seven cadet privates and one cadet officer wore russet shoes, one cadet wore blue shoes and the rest, black shoes. General appearance at inspection, fair.

The band and company paraded like a battalion. During the march in review the cadet major in command saluted the colors with the hand. He also saluted the drum major.

The company drilled in close and extended order. Marching and manual of arms, fair. In

volley firing the cadet lieutenant commanding omitted the word "company" before the command "fire".

Cadet privates were heard talking among themselves while stacking arms and during extended order drills.

Major Ullo drilled the cadets in setting up exercises, going through some of the exercises himself.

A guard mounting the first sergeant after marching on the detail, stood at right shoulder arms part of the time. The right guide of the guard first took his place on the left. The band did not play during inspection of the guard.

Sentinels on post did not know their general orders well. Band good.

The condition of the company is largely due to the fact that 24 of 48 members I inspected entered this institution since the 13th of last month.

March 19, 1909.

P. D. LOCHRIDGE,
Captain, General Staff Corps,
Inspector.

SUPT. O. J. KERN

Illustrated Lecture Will Be Delivered in Armory Saturday Night.

On Saturday evening, Dec. 18, Superintendent O. J. Kern of Winnebago county, Illinois, will deliver his illustrated lecture, "Along Country Roads," in the College Armory. Mr. Kern is well known as a lecturer on this subject and the pictures which are shown in connection constitute one of the finest sets in existence.

The lecture, as the name implies, deals with the conditions of country life, particularly those surrounding the country child, and has been received with great favor wherever it has been delivered.

The lecture is to be given under the auspices of the College and admission will be free to students. This is an opportunity to hear an excellent address which no student can afford to miss.

Nothing nicer for a Christmas present than a photograph, the good ones like those made by Swen.

Editing a paper is a great thing. If we publish jokes, people say we are rattle headed; if we don't we are fossils. If we give them selections they say we are too lazy to write. If we don't go to church we are heathens; if we do we are hypocrites. If we wear old clothes they laugh at us; if we wear good clothes we have a pull. Now, what are we to do? Just as likely as not some one will say we stole this from an exchange—so we did.

Miss Simmons is contemplating moving to the South Side.

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Immortality.

Chas. W. Hammond.

What lies beyond this life only the dead have witnessed. It seems to be very far away and hidden in a cloud of impenetrable mystery. And yet it hovers very close, as only a second's time may sweep one's soul into the confines of eternity and immortality. But the human brain does not shelter the two pictures at the same time: a person glowing with health, and the image of death. However the physiologists say that one lives only by the constant dying of cell tissue, thus the two are closely related.

As one looks around and surveys the wonders and the glories of nature, does he even think for a moment that all this work is just the plaything and pastime of a Master hand, to be ruthlessly thrown aside as a child does when wearied of a toy. Surely no mind can conceive of God in such a whimsical and trifling mood. Why all this longing and striving for better and purer things, if not to be satisfied in the realization of a great hereafter? God was never pictured as a Being so weak and vacillating as to endow man with noble thoughts, lead his feet to attain such grand heights, to emulate the One example, and then, tiring of it all, just close the chapter by death.

Man's life would be one horrible nightmare, if it were not for the rosy thoughts of God and His

promises, to cheer and lighten the way. It is the beacon light that shines down through the years and makes one never falter, when otherwise life would be worse and as unbearable as any human conception of Inferno. This life is only a preparatory stage for the immortal, just as the worm stage is supplementary to the butterfly world. What a glorious thing it will be to leave behind all the bodily pains, heartaches and longings and take up the role of students and beginners in the better life under the Great Master, Teacher, Friend—Christ.

Death is the only key that unlocks the gate of Immortality, so let all welcome it as one "Who wraps the draperies of his couch about him and lies down to pleasant dreams."

LOVE.

John B. Wentz.

What is love? Does it occupy space, and if so, can it be measured? Has it color? Has it power of locomotion? Has it power of reproduction? What of the length of its existence? What of its ancestry? Is it confronted by a struggle for existence?

Of course there is always the dictionary definition to look to, but the dictionary definition of love is very vague. Great men have produced pages and pages of literature on this great abstract subject, but it would be hard to say who had really defined it.

Yes, it does occupy space, but

cannot be measured. It occupies all space. Where the Almighty goes there is love, and the Almighty goes everywhere. Longfellow's poem, "Evangeline," and many greater writings give instances where love is measured by life, which is the greatest unit of measure man has. Love also has color. The very brightest and purest of all colors. It might be disfigured by dark spots, but these spots fade. Yes, love has the power of locomotion. It speeds over mountains and valleys, hills and prairies, rivers and seas, and as far out into space as the longest winged bird has flown.

In love, reproduction or increase is influenced by the cooperation of agents closely related to it, Nature and her most noble son, Man. It could not be said by any person how long love has existed. The time of its birth is unknown. Love has no ancestors. It has always been the one everlasting unit since its creation. The same love that exists today existed centuries ago. Love is confronted by the struggle for existence. Evil is attacking it daily, but it stands as strong as ever.

One might have a tendency to believe that love could be divided into several classes, as follows: love of the Almighty, of nature, of all living things, of a mother, of a father, of a wife, of a husband, of a child and of a friend. But this, I think would not be right. Undoubtedly the love in some of these cases would be stronger and more powerful than in others, but it is not because of a different kind of love. It might be because the love is not so well developed or as far advanced in one case as in another, but all love is the same.

A SUNSET.

Robert Miller.

I can trustfully say that the sunset of which I am going to tell was the most beautiful sight I ever saw. It occurred one winter while I was in Southern California, and the conditions surrounding it were peculiarly mysterious, and left a lasting impression in my mind.

Connected with the school which I was attending was a large athletic field where the boys played games after school hours. One evening as usual, we were out on the field kicking a football and sunsets had no place in our thoughts. In the sky above the mountains was a heavy blanket of fog or rain clouds and evidently a rain was approaching. It grew steadily darker, as we played, the sun went down behind the foothills in the west and it was with difficulty that we could see the ball. It was during the strange silence that settled down over a city between daylight and darkness that we were astonished by the pale glow that appeared on the mountains. We stopped our play and stood watching the mysterious light. It grew stronger and brighter until the mountains looked like huge bronze castings. The valleys and canyons were tinted a softer golden shade and seemed to be cut out with some sharp tool like a beautiful carving. The coloring was most delicate and changeable such as only nature can produce. The effect lasted hardly ten minutes and then slowly faded, and the mountains were restored to their usual cold gray color. The sun, after setting, had shone on the clouds high in the air, and getting the right angle, their light was reflected on to the mountains producing the strange spectacle.

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Seed Laboratory quite busy during the autumn months, as they have been submitting samples of grass, alfalfa, clover, etc., which they have been considering for purchase. Up to this date, since October 1st, the laboratory has made approximately four hundred and seventy-five purity tests, and about five hundred germination tests. Often the germination tests are made in three check trials as it is easy to tell good seed of high germinating power, but in the case of low grade seeds it is often necessary to make two or three different kinds of tests to feel sure that the seed has been given a fair trial. Commissioner Bolley says that it will soon be time for the farmers to commence sending in their consignments of seeds. Farmers should not neglect to state whether they want a germination or a purity test made. They should not wait until just the minute before they want to sow the seed if they desire the reports from the laboratory to be of benefit to them. The Pure Seed Laboratory can turn out a very great number of reports if the work is distributed evenly, but if the farmers all wait until seeding time before sending in the seed, the Laboratory of necessity cannot keep up with the demand at that time.

The animal husbandry department are making an effort to get a complete set of all the stud books issued by the different breed association. These records are very essential in teaching pedigree work and the subject of care and management of live stock. Some of the associations are willing to donate these books to the Agricultural Colleges, while others charge rather high prices for them. It is necessary to get these books soon after they are issued as they soon go out of print. This division will need a complete set of books of this kind for the enforcement of the Stallion Registration Law, which goes into effect the first of January. The Pedigree of every pure blooded horse must be verified before a license is issued.

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PERSONAL
It is reported that Cal Henis is conducting some experiments with deep-sea forms under the hydraulic press.
The Farm Husbandry students have been doing some earnest work in the Library the past week.

Gilbert Crummet, who graduated from the Farm Husbandry course two-years ago, died at his home at Detroit Friday, Dec. 20.

Judging by the posters on last week's bulletin board there are some artists among the Alpha Zetas.

Mr. and Mrs. Ames, cousins of Mrs. McVeety, were visiting her the past week, and spent Saturday visiting the College.

Mrs. Ince has been ill for the past two weeks. Her many friends gladly note that she is improving.

Mrs. McArdle has been suffering with tonsillitis for the past week. Friends are glad to note improvement.

Jessie Thompson was kept busy Saturday making fudge.

Scott Stambaugh is a frequent visitor at the Zoology laboratory.

Lottie Lockhart, who was a student here last year, called on the College last Tuesday afternoon.

Ruth Heath visited some of her friends at the dormitory last week.

The members of the sophomore English class are making a study of their arboreal ancestors.

Mrs. Arvold was a guest of Mrs. Scull at dinner on Tuesday.

Miss Maude Morrow enjoyed a visit from her sister, Mrs. Burgess, of Erie, the latter part of the week.

Mrs. Marshall entertained Mrs. Hammond at dinner last Wednesday.

Maude Knight spent Friday night at the dormitory with Elsie Pelisser.

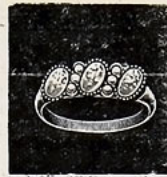
Dr. C. S. Putnam, our musical director, has been elected to the head of the Odd Fellows Lodge.

The class in qualitative analysis have started their work in the Laboratory this week.

The new addition to the new chemical building has been delayed for some time on account of cold weather. Work was recommenced on the building this week, the steamfitters being at work also.

Professor Hendrickson, our violin teacher, and Palmer Foss, the trombone player, were among the musicians that went to Valley City, Friday. During the absence of Dr. Putman the first cadet band was under the direction of Chief Musician, Wallen.

Dean Keene expects to leave for St. Paul December 21, where he will represent the A. C. at an Athletical conference. The purpose of this meeting is to discuss the rules governing Athletics for the states of Minnesota, North and South Dakota, which will be represented by members from their different institutions. Such changes as may seem advisable for the greater safety of human life in Athletic exercises, will be recommended.

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There are now sixty students taking the six-weeks course in Gas Engineering.

The department of Engineering has received a valuable gift from the Avery Manufacturing Company of a double cylinder traction engine.

There is being constructed in the wood shop a fuming-hood for the purpose of covering any article being finished, so that the odor will be confined to this space, instead of filling the entire room.

Prof. Sloeum has in his laboratory an electric current meter, which is a small device for the purpose of measuring the velocity of water in rivers and ditches. It measures from two-tenths feet to nine feet per second.

A model is being made in the wood shop of a combination wood and iron roof truss. It is being made one-tenth its original size, which is a ninety-foot span.

A meeting of the Farm Machinery Course students will be held Monday, December 13, for the purpose of electing officers for the ensuing year.

This question is being largely discussed over the country and it is one of great interest to all athletes. A conference of this kind will be of great value to those interested in college games, and the outcome will be watched with great interest.

Professor James of the Valley City Normal called on several members of the faculty last week. He is studying the methods of teaching agriculture, as there has been a ruling passed to the effect that elementary agriculture will be taught in the Normal.

The Biological Laboratory has lately received a new piece of apparatus which, tho of slight cost and simple construction, will facilitate a good many pieces of laboratory work. It was purchased for the purpose of regulating incubators in the Seed Laboratory, so that the gas supply could be shut off automatically at a proper period in the day. This piece of apparatus is nothing more or less than a small clock, to which is attached a gas regulator, thru which the gas must flow to the burners of an incubator. There is a special spring lever so attached to the minute arbor that when a certain time by the minute hand is reached on the dial the lever will cut loose and shut off the gas. It can be set so as to cut off in five-minute or any other period within twenty-four hours.

Another piece of apparatus in the Seed Laboratory is a large incubator arranged to run at alternating temperatures, the heat being cut off automatically, in such manner that six hours is used in heating the oven up to a temperature of 26 degrees cent., and approximately six hours in cooling it down to a temperature below 8 degrees Cent. The incubator is kept at a temperature of 26 degrees Cent. for a period of six hours and at a temperature somewhat below 8 degrees Cent., for a period of six hours. In this manner the temperature of the seed germination room is made to simulate the day and night temperatures in the soil at germination time. Of course the apparatus admits of varying these temperatures for the different kinds of seed, but those given suit most of the grass seeds.

It is a peculiar thing that in nature even seeds have gained the habit of germinating best under the varying temperature characteristic of the regular variations of temperature in the soil due to the sun's action. People are not the only living beings that have habits.

Several entries have been made for the declamation contest, which is to be held Feb. the 4th. All wishing to enter this contest should "get busy".

Ten of our orators are preparing for the Oratorical Contest. They are getting their work pretty well outlined.

- Four Epitaphs.**
Deep wisdom—swelled head,
Brain fever—he's dead.
—A Senior.
False fair one—hope fled,
Heart broken—he's dead.
—A Junior.
Went Skating—bumped head.
Cracked skull—he's dead.
—A Sophomore.
Milk famin—not fed,
Starvation—he's dead.
—A Freshman.
—Ex.

Several Vassar girls were testing their powers of hypnotism at one of the dormitories of that institution. They put one girl under their power and had her sing songs and do queer stunts for about half an hour. When they tried to remove her from the spell, however, they were compelled to work for a long time. The excitement and hysterics which resulted caused the president to put a ban upon the art. —Ex.

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W. B. Neal returned from St. Paul Friday.

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Dean Shepperd
Returns From Omaha
 Report from Corn Show and American Breeders' Association.

Prof. Shepperd returned home Sunday evening, after having attended the National Corn Exposition and annual meeting of the American Breeders Association at Omaha. The corn show was an exceedingly well arranged and systematized exhibition. The plans were well laid out and followed with great skill, while the exhibitors and visitors were accommodated with comfortable display places, and assembly and committee rooms.

A large number of Experiment Stations had special exhibits showing lines of work that are being done in their respective states. These served to illustrate some of the improved agricultural features that the stations are bringing out, and also to demonstrate improved methods of agriculture.

The Iowa Station had a scheme skillfully worked out, to show the results of individual ear to row corn breeding work that has been an important factor in the work of that station for some years.

Illinois had a chart worked out to show the results of corn breeding for high amounts of oil and protein. This chart showed some remarkable work on the part of the Illinois Station, and put before one's eyes what can be done in changing the chemical composition of a field crop by breeding. The Ohio Station had a system of charts showing the results of a rotation of crops, which is a strong argument for corn belt farmers to adopt better systems of cropping their land.

The Texas and Oklahoma Stations dwelt on cotton breeding, which is of great importance to these more southern states.

The Great Northern Railway company had an exhibit of grains which made a good showing and aroused much interest. The samples had been collected from the different parts of the states of Montana and Washington, and represented a considerable of wealth from those states.

The Union Pacific also had samples of grain from several states along its road, worked out in somewhat the same manner.

Mr. Bailey, of Fargo, is milling some of the samples of wheat that were shown there, to carry out the comparative trials through flour and bread. In this way the experiment will be carried through

from the raising of the grain, through the flour, and the making of bread.

The government showed quite an elaborate exhibit of tuberculosis and hog cholera specimens. They showed other specimens along that line, also, but these two seemed to attract more attention and aroused interest more than any others. In the last few years these two diseases have received much attention and it is very natural that they should arouse interest in such a place.

The Missouri Station had an interesting scheme worked out, to show how much serum had been produced from one hog, and how much it would sell for on the market. Rows of bottles of different sizes were so arranged as to show just how much blood was taken from the hog at each certain date, and how much serum each bleeding made. To the surprise of the people it was seen that the one hog had produced \$5,000 worth of serum.

Among the twenty-three states represented, North Dakota had the most expensive exhibit, and it was put up in the most elaborate form. It had one of the best locations in the building and seemed to attract a great deal of attention. Among other things the apple show seemed to cause a considerable surprise. The corn also held a prominent place and caused some talk.

Beside the corn exhibition, the American Breeders Association held their annual meeting in Omaha, and had the use of the enormous assembly hall, where James J. Hill, of the Great Northern Railway Company presented to them an interesting address. Mr. Hill showed much interest in this line of work, and talked for the future work of the association. The association is planning on issuing a magazine in the near future, on their line of work. This magazine will be issued monthly and will be called the "American Breeders Magazine." It will contain articles written by prominent men who are interested in such work, so that it will be a means of bringing together valuable ideas along that line.

The association has made a great growth in membership, which has been a factor in their encouragement to extend their scope. They have three distinct lines of work under consideration: Animal breeding, plant breeding, and theoretical breeding. The work is divided into three divisions of the whole association and their several committees are chosen from each division to work on different sub-divisions of the work. The committees have done some remarkable work, and have brought valuable results before the people.

Both the Corn Exhibition and the meeting of the Breeders' Association were well attended. There were noted men from all over the United States there, so that one attending either one, or both of these meetings, had a chance to meet men whose ideas are respected in these lines of work.

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