

# The Spectrum.

Published by the Students of the North Dakota Agricultural College.

VOL. III.

OCTOBER, 1898.

No. 1.

## How Mickey Got Kilt in the War.

A pansion-claim agent. Will then ser,  
You're the mon that I'm wanting to  
see.

I've a claim for a pansion that's due me,  
And I want yez to get it for me.

Will, no, ser, I never was wounded.  
For the fact is, I didn't enlist;

Though I would have been off to the  
army,

Had I not had a boil on me fist.

But me b'y, me poor Mickey, was kilt,  
sor;

An, when poets the story shall tell,  
Sure, the country will then be erectin'  
A monument there where he fell.

He was not cut in two with a sabre,  
Nor struck with a big cannon ball;  
But he lepped from a four-story windy,  
An, bedad, he got kilt in the fall.

Yis, it was a rash le'p to be making;  
But, in faith, then, he had to, I'm sure;  
For he heard them a-shlamming an'  
banging,  
An' a-thrying to break in the dure.

They were going to capture poor  
Mickey;

An' to kape from their clutches, poor  
b'y,

He had to le'p out of the windy,  
An' indeed, it was four stories high.

No, it was not the fall, sor, that kilt  
him;

It was stopping so sudden, you see,  
Whin he got to the bottom it jarred  
him,

An' that kilt him as dead as could be.

Och, he loved the owld flag, did brave  
Mickey,

An' he died for his counthry, although  
He was not killed in battle exactly;

He was lepping the bounties, you  
know.

'Twas the marshal was after him—yis,  
sor;

An' in fact, he was right at the dure,  
When he made the le'p out of the windy,  
An' he never lepped bounties no more.

So, av course, I'm intitled to a pansion,  
An' the owld woman, too, is, because  
We were both, sor, dependint on Mickey,  
The darling, brave b'y that he was.

Av course, ye'll not have any trouble,  
So go on wid yez now, sor, and fill  
Out a lot of tham blank affidavits,  
An' I'll swear to them all, so I will.

It's swate, yis, to die for wan's country;  
But, bedad, I can't help but abhor  
Thim battles where people got hurted,  
Since Mickey got kilt in the war.  
—Selected.

## Reproduction of Plants.

Propagation and reproduction are the inbred elementary properties of protoplasm. As the protoplasm of a plant can produce a new plant, it would perhaps be well to know the properties of protoplasm. It is a glutinous, jelly-like mass, being nearly identical with the white of an egg, and constitutes the most elementary living matter in animal and plant structure. It has the power of movement and growth, is irritable and therefore sensitive to heat and light. The structure is complex, consisting of a watery portion, enclosed by a spongy substance. In this are the other parts that grow and increase.

There are three ways in which protoplasm shows its power of growth; vegetative propagation, asexual reproduction and sexual reproduction.

In the first, vegetative propagation,

the protoplasm divides to form a new individual. As the cells of a plant come from the division of an original cell, it is necessary to know the steps in the process of cell division. In the first place each cell contains what is called a nucleus. This is a small rounded body usually near the center of a cell. The structure appears to be composed of very tiny granules, which are connected by minute threads, forming a network. This nucleus is the center of life and the principal factor in its activity, but the cytoplasm, which is the watery portion containing the denser plasma, really conducts the growth and gives out the energy. The first signs of cell division appear in the nucleus as it enlarges, becoming somewhat longer. Then the network spoken of contracts and this results in the breaking up of the meshes into larger threads which are called chromosomes. Portions of the cytoplasm become changed into small filers.

Closely connected with the nucleus are two small bodies called centrospheres and the fibers of cytoplasm radiate from one of these small bodies to the other.

By means of this radiation the chromosomes are attracted toward the middle of the nucleus and there they form into two groups, which separate and become surrounded with a thin tissue. The fibers now thicken and form new cell walls.

In the higher forms of vegetative propagation cells are cast off, and then develop without any other agency. Sometimes this is done by a cell being cut off of the end of a branch or filament. In bulbs the cells are first filled with food material and afterwards separate from the producer.

Plants are also reproduced in this method of propagation by branching. In grasses, strawberries and mosses for example, the older parts of the plant die and the new branches become free distinctive individuals.

**Asexual reproduction:** In this method the contents of the cells separate into different parts. These parts are minute

grains and have the power to produce a new plant and are called spores. A spore can live under conditions that the plant itself could not, so that the spores continue the life of plant.

In asexual reproduction the plant may become changed in several ways. It may be modified in every part, or one or more of the cells may become changed and from these new individuals are developed which may be entirely different from the original plant.

The spores referred to are well supplied with nutritive qualities and as a general rule possess a nucleus. The cell containing the spore is called the sporangium. This spore case differs in form in different plants. In the lower forms any cell in the plant may be used to form spores and in the higher forms certain cells are set aside for the purpose of reproduction.

The simplest form of a sporangium may be any of the cells in which the contents are not specialized and the contents escape in a mass of protoplasm. As an example of this we have the simplest algae, the lower forms of fungi and yeast.

The mass of protoplasm which escapes in this manner is called a zoospore. In the higher forms where only certain parts of the plant are used and are especially adapted for this use, the sporangium is on a long pedicel and looks like a round cell. Some of the sporangia are formed of clusters of cells. The spore attachment is then called the placenta. The spores in the moss are like this and are developed from a primary leaf. In ferns these rudimentary leaves become changed into different forms and the sporangium produces two kinds of spores, small ones called microspores, and large ones called macrospores.

In flowering plants the rudimentary leaves are still more changed and the two kinds of spores are born on two kinds of leaves; the microspores on leaves called stamens and the macrospores on leaves termed carpels.

**Sexual reproduction:** One of the

cells of a plant or the plant itself has not the power to produce a new individual but needs the assistance of another plant or cell. In the simplest forms of conjugation the contents of two cells, which are similar, mingle into one mass. The mass or cell thus formed is termed a gametangium, and the two cells which formed it are called gametes, while the whole plant is called a gametophyte.

In a different form the gametes are provided with extremely delicate, long slender appendages called cilia, by which locomotion is effected. These gametes become free from the gametangium and mingle afterwards. A cell thus formed is the zygospore and the bodies forming it, zoogametes from their animal-like activity.

In the higher plants the process preparatory to reproduction is named fertilization. The male and female cells can be easily discerned. The female gamete is the larger and is termed the oosphere, which is enclosed by a cell called the oogonium. The male gamete is termed antherozoid and its organ, the antheridium. When the oosphere is fertilized it is called the oospore.

In the Rhodophyceae or red Algae, the female gamete is multicellular. In mosses and ferns the female organ and its surrounding cells are enclosed in a flask-like body of many cells and this kind of a gametangium is called archegonium.

Flowering plants are distinguished from flowerless plants by the production of seeds containing an embryo or undeveloped plant, while in flowerless plants the production is a spore.

In the germination of a seed the embryo increases in size, the radicle is protruded and the plumule unfolds and finally forms the stem and leaves of a new plant.

It is not always easy to distinguish these three methods of reproduction, especially in the lower types of plant life as the methods are very closely allied.

Alternation of generation is a very interesting process in connection with re-

production. As an example of this we have the fern. Spores are developed on the leaf. These fall to the ground and instead of developing into a fern, they produce what is called a prothallium, a small alga-like or leaf-like plant. The antheridia and archegonia are upon this. When the prothallium is matured the antherozoids become free and by this means come in contact with the archegonia and fertilize the oosphere. The oospore then develops the fern.

In alternation of generation a plant producing sporebearing organs is succeeded by a plant bearing sexual organs.

There are many exceptions to the different processes of reproduction causing the study of plant life to become an interesting problem.

Jessie E. Taylor.

#### Vacation—A Reverie.

There is not the shadow of a doubt that old Father Time meddles with his great sun dial when the whim seizes him. Else why are vacation weeks so palpably much shorter than the others of the year? It is a crabbed trick on the old fellow's part to pound the hour-glass on his scythe just when we wish the sand to run slowly; but very likely it provokes him to see everybody else idle when he has to swing the same old round.

Yet perhaps if vacation were longer, we would be like the little girl in "Christmas Every Day in the Year," who burst into tears at the sight of candy and threw her dolls out of the window.

By the way, what a wide difference in taste we show in the matter of these same dolls and candy.

There is the somebody who is all tired out, whose energies are used down to the last grain and whose summer ideal is to rest in the lazy shadows while the wind fans her sleepily and the trees nod in the middle of their lullabies.

Other somebodies are all briskness and filled with plans for having a good time. These somebodies work hard every day and sometimes far into the

night all summer. But it is only having fun, and so no hardship. They row heavy boats until their palms are blistered and the scornful stare of the sun brings a painful blush. What matter such small distresses; the water dimples about the bows and somebody else, looking pretty under a parasol, admires the graceful handling of the oars. They wheel mile after mile over dusty roads till muscles tire and rivers of moisture trickle down the honest man's brow, but they are out for pleasure.

They slave over the inevitable but deadly picnic, and go to bed with injured recollections of the mean and selfish behavior of various other somebodies, and a miserable headache as souvenir of the large and heterogeneous picnic lunch. They had a fine time just the same, if that Jones fellow did monopolize the prettiest girl there while better men got covered with beastly burrs, tramping around to find good water for the lemonade.

There are those to whom the summer months mean hard work of a different sort. Somebodies to whom the opportunity for study comes as a luxury and the ending of the term means only that labor of a more practical sort must be performed.

Yet each of these, the idler, the pleasure seeker and the worker accomplishes the great end of summer vacation in coming back fresh for next year's work. For a change of occupation is rest, whether we many choose the occupation, or it comes as a necessity. And pleasure, too, comes often to him who can not or will not pursue it.

How often we have gone for our outing with a geometry or a grammar tucked in a corner of our trunk to rub up our rusty places, and how invariably it remains undisturbed in its hiding place. How we plan to put our clothes in order and do a little sketching or get to work on some gifts for the winter holidays. Things that will be crowded out in the busy months to come.

To be sure, the unopened book and untouched dresses or embroidery weigh

heavily on our consciences in quiet minutes and we then and there determine to begin work on them in earnest tomorrow.

And next summer sees the making and breaking of the same resolutions.

\* \* \*

Now the sand has sifted down for the last hour of our respite. We are again part of the busy colony that swarms through the familiar halls and lecture rooms. There are our professors wearing once more the dignity of mien befitting them. As we receive their gravely cordial greeting, we experience a sense of awe at the recollection of the familiar terms we and they were on when we met on excursion or at party.

See those bronzed fellows down the hall; they are our soldier boys. A strange outing their's has been—camping perhaps, but with strange game to sight at—and the sound of the bugle in place of the friendly dinner horn.

We feel a sense of loss for the familiar faces that are missing, and glance with more or less indifference at the many new ones. As always, we will fail, until snow is melting again, to discover the bright minds and fine qualities of the owners of these new faces and we wonder why they were not asked to help out our literary work and enjoy our college festivities.

But the "How are you's" are all said, there is a great consulting of the schedule for classes; there are confusions and complications galore, patient disentangling of the snarls, the class bell rings—and the colony has settled down to its old steady hum.

Jo. Jewett.

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Professor—"Too bad! One of my pupils, to whom I have given two courses of instruction in the cultivation of the memory, has forgotten to pay me, and the worst of it is, I can't remember his name."—*Fliegende Blaetter*.

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The analysis of the sugar beet has been commenced.

## The Tendency of Applause.

Who can but admire that custom of the ancients of launching a ship and allowing her to pass without pomp or ceremony from the yards in which she was constructed to her first voyage on the fitful sea? Without ornament of gay streamers, with nothing but the strict role of duty to occupy the minds and attention of her sailors, she passed from the sight of land. All distinction was reserved for the time when she should return, having successfully encountered the perils of a raging sea. Then her tattered sails and marred, but worthy sides, were emblazoned with bright trappings, while applauding throngs assembled to honor her triumph. What great lessons might be drawn from this custom, to apply in the world of today!

We see a person launching out on the sea of life; brilliant he may be as the ship is graceful. He may have the qualities of truth, manhood and honor. Wafted on by favoring breezes, and cheered by the applause of friends and that part of the world whose ports are set down in the sailing chart of his existence, he may glide serenely over places free from the reefs of care and shoals of disappointment. But is not the applause in such cases given too freely and injudiciously? Not taking into account the pleasant and advantageous circumstances that surround and support him, are we not apt to give him too much credit for his successful start? Should we not reserve this applause till he has proved himself as enduring in tempest as he is gallant in calm?

On the other hand, we may see a person equally talented having the same admirable qualities, but his life has been full of disappointments nobly borne. Some great care has claimed his attention and, not heeding the glittering prizes of the world, with true generosity and noble purpose he has faithfully achieved his undertaking. He has withstood bravely the dark hours of sorrow and difficulty; has suffered un-

flinchingly the lacerations from the "briers of this working-day world," and has accomplished that which entitles him to the honor and esteem and applause of all. But how tardy is this applause in reaching him! In the case of the first, the applause, while unmerited, may be a disadvantage, serving to "enfeeble all internal strength of thought." In the latter case, of course, too great commendation would have the same effect; but until we better learn to give honor where honor is due, we need fear nothing from that quarter. The chances are that he will be without not only the applause of all, but the support and sustaining influence of the few.

In later life, too, we may notice a person exalted by means that are questionable, supported in his position by trickery and fraud; but the simple fact that he holds such a position seems to be enough to command the applause of far too great a proportion of the people. We are too apt to measure a man by his station.

"O, place! O, form!

How often dost thou with thy case, thy habit,

Wrench awe from fools, and tie the wiser souls

With thy false seeming."

We look blindly toward the achievement, nor stop to question the crooked and slimy paths by which success was reached.

When a worldly position is applauded above the integrity and uprightness that prompts one to pursue the right rather than to use despicable means to obtain that position, or when any goal in life is held higher than the sterling qualities that are exhibited in the honest and manful attainment of that goal, we are fostering an evil to be dreaded; are harboring a vice of dangerous mein; one that "makes the meat it feeds on" and in its growth will effect that which no people working in the interest of culture and progress can afford to countenance, a compromise between worldly distinction unjustly obtained, and the qualities of truth and honor.

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Published Monthly by the Students of the North Dakota  
Agricultural College.

Entered at the Postoffice at Agricultural College,  
N. D., as second class mail matter.

### TERMS.

One year, prepaid, . . . . . \$ .50  
Single copies, . . . . . .10

Subscribers are requested to give prompt notice of  
any non-delivery or delay in delivery of magazines.  
All communications to be addressed to  
BUSINESS DEPARTMENT, "THE SPECTRUM,"  
Agricultural College, N. D.

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In making our debut into the field of journalism and the editorial management of THE SPECTRUM for the college year, it is with "fear and trembling" that we, the uninitiated, assume the responsibility of editing our first number. When we consider that our impressions, of the various institutions throughout our land, have been formed largely from the papers that they publish, we cannot but realize more fully the burden laid upon us to maintain the degree of ex-

cellence established by our predecessors.

What we wish to do is to make THE SPECTRUM so representative of the loyalty, enthusiasm, and high standard of work among our students that its readers will receive the impression of our college that we would wish our paper to convey.

Can we do this? Not without the earnest efforts of the students in general and the hearty support of the literary societies, and these we hope to have in a larger measure than did our predecessors. Not that we are more worthy but that the progress of the past demands more for the future, and the support in the past has not been all that might reasonably be expected.

The October Forum contains an excellent article on Intercollegiate Debating Contests that is worth reading. It contains many valuable suggestions that our literary societies could well follow. Thorough training for any contest is essential to success. Now is a good time to begin preparation for the gold medal declamation contest, and lay a strong foundation for the oratorical contests. The prizes offered for these efforts are, in themselves, of small value when compared with the lasting benefit, to the speaker, of careful preparation and thorough criticism. No person should attempt to represent his literary society, in such a contest, without doing his best, and he cannot do his best without several weeks of thought and rehearsal. Do not be content with criticism from one person, but seek assistance from several. Remember you are to be judged by at least three, and must receive the approval of at least two of the three. Mannerisms that please one will not please another; what one would pronounce a weakness may by another be considered a strong feature. A defect that would escape the notice of one might be very objectionable to another, so by having criticism from several, you will be prepared to win the approval of more.

We read the following in one of our exchanges: "The man who refuses to subscribe for his college paper and then reads it over the shoulder of a fellow student is short enough to tie his shoestrings to his neck-tie." While the expression is not as elegant as our language would allow, it certainly is literal and forcible enough to find its way into the most obtuse brain. But seriously, is it not the duty of every student to subscribe for his own college paper? In doing so he not only aids in its support but shows an interest in its welfare and an appreciation of the time and labor devoted to it by others.

After leaving college a complete file of the papers for the whole term of attendance would recall many of the pleasant incidents of college life which might otherwise be forgotten. The half dollar given for a year's subscription to THE SPECTRUM will bring enjoyment and profit of a much more lasting nature than if expended for a pound of the best French bonbons. The moral is, not that bonbons are to be despised but wait until you have placed your name upon the honor roll carried by our business manager.

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Among those of our former students who have not returned this year are numbered "our soldier boys" who enlisted in the First North Dakota Volunteers. They are now at Manila and the date of their return is uncertain. Many interesting letters, especially those written since the arrival of the troops at the Philippines, have been received by college friends. After hearing of the extreme suffering among some of the volunteer troops it was with great relief that, a few days ago, we read the official dispatch from Colonel Treumann stating that all North Dakota boys were well, no one at that time being in a hospital. When our boys return as "veterans of the late war" they will receive greater honor than that paid them at the time when school duties

were laid aside in response to their country's call.

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Let those who have been with us before welcome the new students and make them feel at home among us. Old students too often are inclined to be thoughtless in greeting those who have just entered. We all remember how our own spirits were lightened by the cordial welcome extended by some of those students whose good fortune had led them here before us, and we were made to feel that though strangers, we were to have our place and part among the busy throng. "A word fitly spoken is like apples of gold in pictures of silver," and the smile or friendly nod may be the pebble in the tiny stream that changes its whole current, and transforms that diffident, half-discouraged and homesick new comer into one of our brightest and best workers.

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We are glad to note that the students seem to be manifesting a greater interest in athletics this term than previously. While many of our best athletes are now testing their skill in running, jumping and playing the ever new and exciting game of Spanish-fly on the far-away shores of the Philippines, we should be devolving new material with the expectation of doing better than ever before in athletic lines.

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### Summer School.

The training school for Cass County was held at the college again this year and we hear many complimentary remarks from those who attended. State Superintendent Halland visited the school during the third week and was very much pleased with the interest and enthusiasm displayed in the work. County Superintendent Davis was untiring in her efforts to have it the best school in the state and her efforts seemed to be appreciated. The corps of instructors vied with each other in mak-

ing their work helpful and instructive for the classes.

The attendance was not quite so large as last year, when Ransom County united with Cass County. This year Cass was alone, but the attendance was equal to that of any other school in the state. Professors McArdle, Bottenfield and Keene were among the instructors. The college quartette added to the evening entertainments by giving a concert, and Supt. W. G. Crocker from Ransom County delivered a popular lecture on our late unpleasantness with Spain.

The college gains many friends each year these teachers' meetings are held, for in this way many come to know the college as it is—an educational institution and not merely an experimental station and farm school. Many on their first visit, express surprise to find the various departments so thoroughly equipped and giving to the young people of the state such opportunities for training and investigation.

#### Colleges and College Notes.

It is our intention to make this department of THE SPECTRUM much stronger than heretofore, but, owing to the fact that the college year has just begun, we have received but few exchanges, and for this month the column must necessarily be brief. From those already received athletics seems to occupy a prominent place in the attention of the students.

The M. A. C. Record of Sept. 27th, contains a concisely worded paragraph on "Learning How to Learn." The thought is excellent and the article is well worth a careful perusal.

The faculty and students of the University of Nevada doubtless are very grateful for the support promised by The Record, but THE SPECTRUM, not having attained the mature age of The Record, deems it of far greater importance to have the support of the faculty and students afforded it.

While the N. D. A. C. has lost

many of its students by enlistment other institutions complain of losses but in an entirely different manner, as witnessed by the following from one of our exchanges:

"Little Willie was a freshman.

Green as grass and greener, too;  
Not a thing in all creation  
Ever had a greener hue.

One day while out exercising,  
Through a field he chanced to pass,  
And a brindle cow devoured him,  
Thinking he was only grass.

Little Willie is in Heaven,  
Vacant are two places now,  
In the class there is no Willie,  
In the field there is no cow."

The Purdue Exponent has changed its form to folio and is now issued weekly. It has a strong athletic department while the literary department in the numbers that have come to our hand, seem to be deficient.

The University of Pennsylvania believes it will have a winning team this season.

The Carletonia comes to us again bright and spicy as ever. We regard this as one of our best exchanges.

Talks and Thought from Hampton, Va., although one of the smallest exchanges, is very interesting owing to the fact that it is published by the students of the Indian School of that city.

Wells, the prize athlete of M. A. C., will not return this year. Last year he devoted so much time to athletics that it interfered with his studies and this year the faculty declined to allow him to take part. Michigan encourages clean athletics but they believe that a man should be a student first and athlete afterwards.

The foot-ball team from the senior class in the University of Illinois, in accord with the custom of former years, issue a challenge to meet the foot-ball team of the "Corps of Instruction Varsity in deadly combat on the gridiron."

## Local Happenings.

Wheels!

Welcome '02.

Foot ball!!!!

Subscribe for THE SPECTRUM.

Did you have a pleasant vacation?

What makes Miss Spencer so happy during chapel?

Ask Drake Bottenfield as to the latest California news.

What was the matter with the football game last Saturday?

Clayton Worst met with quite an accident during the game last Saturday.

We are glad to see the old students coming back and welcome the new ones.

Special preparations are now being made for teaching physiological chemistry.

Mr. Manns is said to be an expert oarsman. Ask him about his "Aglæ" expedition.

Miss Sylvester of Plainview, Minn., a former instructor in the Mayville Normal, visited the college last Friday.

It is suggested that the exchanges be placed where all the students may have the privilege of reading them.

A ladies quartette will be organized in the near future. Do not be alarmed if you hear queer sounds issuing from the chapel after study hours.

We are very sorry that Miss Thams is kept from the regular work of the college on account of her eyes. We sincerely hope they will improve.

It is said that a young lady student, on being reproved for drinking water that had not been boiled, replied that she would rather be an acquarium than a cemetery.

Professor Snyder, chemist of the Agricultural College of Minnesota, and Professor Brewster, professor of mathematics in the same institution, visited the college last month.

The Departments of Horticulture and

Agriculture made an exhibit at the State Fair at Mandan. The display was an attractive one and reflected credit upon the Experiment Station.

Professor and Mrs. Shepperd visited the Trans-Mississippi Exposition at Omaha.

Miss Jennie Spotts, instructor of music in Mayville and a former Fargoite, had charge of the classes in vocal music at the summer school.

The quartette are completing arrangements to give a concert in Wheatland the last Saturday of this month. They will probably make several appearances during the coming season.

Many changes will be made in the arrangement of class rooms this year. The dormitory will be entirely remodeled inside. The Horticultural, Agricultural and Veterinary Departments will be moved to this building where they will have ample space for their individual museums and class rooms. The Domestic Science Department will retain the rooms it occupied last year and add several others. This will leave more room in the main building. The girls will be given a separate reading room which will probably be in charge of Prof. Eva Boyles.

Messrs. H. W. McArdle and Hugh McGuigan and Misses Jessie E. Taylor, Mabel Spencer, Anna Chisholm, Dorothy Berry and Edith L. Hill, the first four composing the Tyrolean Quartette of the Agricultural College, with Miss Chisholm as accompanist, and the other ladies as readers gave an entertainment at the Presbyterian Church Tuesday evening under the auspices of the C. E. Society. It was a delightful affair, the young people under Professor McArdle showing great proficiency and pleasing the audience at every number. They were recalled several times. It is hoped they will be heard here again when storm and rain do not interfere with the attendance, their personal as well as professional charms having made

them many friends.—Casselton Reporter, July 1.

Ask Green what was the matter with his "Bell Animalcule."

Don't forget that you know how to play basket ball, girls!

We feel it an honor to welcome back two of "our soldier boys."

Miss Mary Hill, a former student, is now teaching in the Fargo schools.

Not even carrying a saw makes Professor Bottenfield look unprofessional.

Ask Messrs. Greene and Bottenfield why they do not sit down to work their experiments in chemistry.

The Sophomore class would like the following question answered: "How can six class offices be filled by five people?"

We hear of the new woman filling all kinds of positions, and her latest is presiding at a meeting of the Athletic Association.

The Physical Culture classes, under the instruction of Miss Senn, are progressing well and expect to derive much benefit from their work.

One of "our soldier boys" at Manila sends back word that he has found the "missing link" for the natives resemble the monkey family too closely for one to doubt the theory of evolution.

As there is nothing in Professor Mc-Ardie's office now, to suggest mathematics except the professor himself, it is perhaps well that none of his classes recite there.

"Uneasy rests the head that wears a crown," but other heads than those that wear the crowns sometimes rest uneasy. Ask Colonel Stark why he is haunted at night with dreams of—"skulls"—

Dewey is in great demand at the college now. "Dewey" twenty-five cent piece to the Athletic Association, girls. "Dewey" dime and nickel to the Athenian Society, members. "Dewey" half dollar as subscription to THE SPECTRUM, students.

Watch the bulletin boards more closely.

The chemical laboratory has a new gasometer.

Mr. Neyhart is working in the mines at Butte, Mont.

The Athenian Society has several new members.

Mr. Meinecke expects to come back the winter term.

Why can't we have some debates in the literary societies this year?

We are sorry to hear that Mr. Olaf Norøby will not be back.

Lost, strayed, or stolen—An Amoeba. Please return the same to Miss Hill, Zoological Laboratory.

We need more "college spirit" at the meeting of the students' organization; it was impossible to get a quorum.

The plaster on the ceiling in the hall of the main building has caused so much trouble that it is now replaced with iron.

No; carpenters were not at work tearing down the chapel last Monday. It was the advanced class in physical culture practicing—weil, just ask some of the girls, what.

A bulletin board has been placed just under the clock in the hall of the main building, in which are placed the daily weather bulletins. These bulletins give the predictions for Minnesota and Dakota.

Professor Waldron has spent much of the vacation investigating the Rocky Mountain Locust which made its appearance in several counties. He and Professor Bolley also visited the Yellowstone Park.

A delegation from the Norwegian-Danish Press Association visited Fargo last week and were driven around the city. They visited the different college buildings and expressed great surprise at finding our institution as large as it is. Several copies of THE SPECTRUM were distributed among the editors.

Miss Ollie Worst served a dinner to the Board last Wednesday.

Quite a large number of books have been added to the library since last June, many of which are scientific.

The senior preparatory class in sewing starts out this term with fifteen new members.

The friends of Mr. Salting will be grieved to learn of the recent death of his father.

Mr. Heath says that if there is anything in this world he despises it is a red-headed fellow.

Lieutenant French has been ordered with his regiment to Huntsville, Ala., and expects soon to be sent to Cuba.

In the absence of a regular detail from the war department, Professor Kaufman will have charge of the cadets.

We are sorry to hear that Miss Manning has been called home by the condition of her mother who, in a runaway, received injuries that may prove serious.

The students seem to be recognizing the rights of others more this year than last, as it is much easier for one so inclined, to study in the reading room, without being disturbed.

During the summer, Professor Keene has taken a large number of views of the buildings, and experimental plates, from which cuts will be made for the bulletins and circulars.

The college year opens with an increase of twenty-five per cent over last year's attendance. The large crop has helped many to seek an education, and the other state institutions report a similar increase.

The foot-ball game between the A. C. and Y. M. C. A. teams scheduled for Oct. 8, did not materialize on account of the opposing team's failure to appear. However, the crowd that had gathered to witness it were not disappointed, as a second team, consisting of outsiders, subs, and three enthusiastic professors, was organized, and a lively game played. Our coach, Dr. Hershheim, is very

popular among the boys, and we are confident that we will have a winning team this season.

During vacation the chapel was calcimined. The pink color has a pleasing effect.

Mr. Hall is giving the football team the benefit of his experience in acting as coach.

The large flag across the front of the chapel is a very appropriate and handsome decoration.

The college quartette gave a concert in Mapleton, July 8, and report a jolly time.

Professor McArdle's office has been papered and painted and the new carpet and pictures give it a very home-like appearance.

Professor Keene will represent the college at the next meeting of the "Association of Agricultural Colleges and Experiment Stations." The meeting will be held in Washington, D. C., in December.

Professor Ten Eyck has been studying the root systems of wheat and other grains, during the summer, and has secured some very fine specimens showing that these plants are deep rooters. The samples are a surprise to the visiting farmers.

During the summer one of our lady students received such large epistles from the far west that the railroad companies were obliged to send them by express. As the mail carrier in her district is not very great instature a special dray had to be hired. Rather expensive war news!

The Athenians gave their first program of this year Oct. 8. The following is the program:

- Music.
- Paper ... .. Mr. Manns
- Recitation ... .. Miss Berry
- Music.
- Reading ... .. Miss Hill
- Recitation ... .. Miss Taylor
- Paper ... .. Mr. Waldron
- Music.
- Reporter ... .. Mr. Bottenfield
- Critic's Report.

The freshman class in Household Economics were afforded the opportunity on Saturday to study the collection of water colors exhibited by the artist, Mr. Congdon, of New York city, who has recently returned from Europe.

The faculty are busy with the biennial report of the college and station, which goes to the governor, Dec. 1. In this report they will show the work done in the institution the past two years, and map out the needs for the next biennial period.

While the change of system in employing janitors deprives a few young men of an opportunity to earn some money, we cannot but note the marked improvement in the appearance of the building. Apparently, student janitors have not been a success.

At a meeting of the faculty held Oct. 11, some changes were made in the position of studies in the curriculum. Geology was placed in the spring term, sophomore, in all courses; plant anatomy, descriptive geometry, and materials of engineering were changed to the winter term; mineralogy was added to the list of electives in the fall term junior, science course; rhetoric was changed from winter term sophomore, to winter term junior; and veterinary was changed back to fall term senior. Take a copy of the course of study and mark these changes and then preserve the copy for future reference.

#### Alumni and Former Students.

C. M. Hall, '95, has returned to the N. D. A. C. as instructor in geology. His past year has been spent at the Johns Hopkins University fitting himself for this line of work. During the summer he was on the Maryland Geological Survey.

Hugh McGuigan, '98, has been acting as assistant in the department of chemistry since his graduation. Besides doing special work in chemistry he is studying French and German.

F. G. Benn, '98, has a position in

Spaulding's drug store at Alexandria, Wis.

Chas. Hayden with '97 is attending the law school of Minnesota.

Angela Gibson, '98, attended the N. D. A. C. summer school and is now teaching at Inkster, N. D.

Miss Anna Small, '98, also attended the summer school and expects to spend the year in teaching.

C. O. Follet, '98, finished his course at the Dakota Business College early in the summer and is at present book-keeper for Alex Stern, clothier, of Fargo.

Paul Bottenfield, '98, after spending a part of the summer in Chicago taking special work in his line has accepted a position as teacher of chemistry and physiology in the Northwestern College of Osteopathy of Fargo. Along with this he is studying osteopathy.

Carl E. Lee, '97, is supervising a dairy at Buxton, N. D.

Merton Field, '95, spent the summer on his ranch in the western part of the state. He is now engaged in making a collection of the medicinal plants of North Dakota.

R. D. Ward, '95, is in the stock raising business, and has a herd north of Bismarck.

Robert Reed, '95, has bought a ranch. It is reported that he is soon to join the Benedicts.

John W. Hilborn, '95, is in the milling business at Leal, N. D.

Allie Power with '95, is superintendent of the Ellendale farm.

D. Fred Grass, with '95, is finishing his senior year at the Rush Medical College.

George Beach, with '97, now in the medical course at Ann Arbor, spent the summer in Fargo.

C. P. Nordby, '96, visited Winnipeg during the summer, making the trip on his wheel. He expects to spend the winter on the Pacific coast.

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