

The Spectrum

Published by the Students of the North Dakota Agricultural College.

VOL. 1.

DECEMBER, 1896.

No. 1.

The Wonders of Acetylene.

Within a comparatively short period of time there has appeared in the lighting industry the electric light, the Siemens-Lungren regenerative burner and the Welsbach incandescent mantle. The discovery of all three of these new methods of lighting in so short a time

ingly. But just now there appears a new illuminant in the shape of acetylene. Acetylene in chemical terms is the chemical union of two parts of carbon with two parts of hydrogen. This gas, for it is a gas, was first noticed by Edmund Davy when he produced it accident-



threw the lighting industry into a very unsettled condition. With the last decade, however, things have become settled, the different advantages of each system have begun to be recognized and the purposes for which each were best adapted have been made use of accord-

ally in his effort to make potassium from the action of water on carbonized tartar and powdered charcoal. It was also discovered some years later by passing olefiant gas through a red hot tube. It is also made in the the laboratory by passing an electric current between two

carbon poles in an atmosphere of hydrogen.

Acetylene is a colorless gas having a disagreeable odor resembling garlic. Specific gravity, compared with air, is .91. Water at 18° will dissolve its own volume of the gas. With an ordinary (Bunsen) burner it gives a very smoky flame, but much brighter than electricity. Acetylene is poisonous and when inhaled combines with the hæmoglobin of the blood, thus causing the expulsion of the oxygen. Acetylene is used extensively by chemists in polariscope work and the synthesis of organic compounds. In regard to its physical properties J. J. Suckert prepared some very interesting experiments. A tube of the liquid acetylene was cooled down to a temperature of — 28° F. and after the pressure was removed a portion of this was solidified into a snow like mass. Then a small particle of this was placed in a dish containing mercury. The mercury was instantly frozen. The illuminating power of acetylene surpasses by far any illuminant which is in use at the present time. A special burner adapted for the use of acetylene will use about five cubic feet per hour and will give a light of from two hundred to two hundred and forty candle power. Five cubic feet of coal gas only gives a light of about thirty candle power. Thus a cubic foot of acetylene will give a light eight times as intense as coal gas. Up to 1888 acetylene was nothing but a laboratory product and the cause of it rising into prominence so lately is due to a new and cheaper formation of

the gas from calcium carbide, which has recently been produced in the electric furnaces. The question as to who first made the discovery lies between Mr. T. L. Wilson of the Wilson Aluminum Works at Spray, N. C., and a French chemist by the name of Maisson. Both claim the right of discovery but as Mr. Wilson sent specimens of the carbide to Lord Kelvin in 1892 for examination, he seems to have preceded Maisson. In a dry atmosphere pure calcium carbide is colorless, but upon exposure to moisture evolves the odor of acetylene. Upon exposure to air, the lumps of calcium carbide become coated with a thin coating of lime, and this protects the interior from further oxidation. The whole process of the manufacture of acetylene by the latest method depends upon the formation of this calcium carbide.

The success of this substance as an illuminant depends almost entirely upon the cost of manufacture. Prof. Houston, Drs. Kennelly and Kimicutt having been sent as commissioners to Spray, N. C., to ascertain the entire cost of producing calcium carbide, reported as follows:

Our estimate of the cost of producing calcium carbide at Spray by working the three hundred and sixty-five days per year and twenty-four hours per day, yielding an average of one ton of gross carbide a day, is \$32.76 per ton. Of this amount \$14.39 is for material. The freight charges on lime and coke are heavy at Spray and add materially to the cost. Taking into consideration the heavy freight charges mentioned at

Spray, and in addition in having to pay for their water power, the cost certainly can be reduced materially by the company putting in a plant at Niagara Falls. On the whole it may be said that acetylene promises to be an important rival in the methods of illumination and deserves the investigation of consumers and light producers.

ORATORY.

Official organ for '96 and '97 of the
WESTERN LEAGUE OF ORATORY.

OFFICERS:

C. M. Hall, president, Fargo, N. D. W. H. Bradford, vice president, Mitchell, S. D.
E. T. Colton, secretary, Mitchell, S. D.

Next Place of Contest: Fargo, N. D., June, 1897.

North Dakota Oratorical League.

O. P. Noriby, secretary, Fargo, N. D.

South Dakota Oratorical League.

A. C. Bowdish, secretary, Yankton, S. D.

Now that the fall athletic season is past, and all out of door contests and amusements are ended, the minds of the active students naturally turn to the society and literary contests which are to receive their attention during the winter months. Too much can hardly be said to stimulate more activity in this work which culminates in the declamation, debating and oratorical contests later in the season.

If there is any one thing more than another that outwardly distinguishes a young man or woman who has had a college training from those who have not it is in general his style, his manners, expression his courtesies, the ease with which he associates with others, etc. Even though one possesses much learning, if he lacks the virtues of these qualities, he lacks no unimportant part of his college training. These are attained not by the study

of books, but from Mother Experience through the means of our literary societies. The object of our literary societies in general I believe to be a broad literary and cultural training, and not merely formal debating clubs into which they are liable to degenerate. Where the declamation is the climax of the school boy's literary efforts, the oration becomes the crowning effort in the college boy's experience.

Unless one can speak, read, write, debate and appear natural before an audience, all of these and then have brains as well, he cannot be a successful orator. An oration combines them all, and his or her success or failure depends largely upon the previous training in the so-called minor efforts.

On May 15th, 1896 a convention was called in Fargo, comprised of delegates from the North Dakota and South Dakota oratorical associations,

a western league of oratory was formed, taking that name, and it was decided to have the first contest in Fargo, in June '97. The speakers in this contest to be chosen by a state contest. The North Dakota State League contest to be held in Grand Forks in February 1897, the representatives to the State Contest to be chosen by local contests among the societies in each in-

stitution, thus the literary society becoming the basis or progenitor as it were of our highest efforts along this line. Therefore let us realize the importance and value of good, steady work in all of our efforts in the literary society if we would make of ourselves what every boy and girl should be who has the advantage of a college training.

ATHLETICS.

Burt L. Bottenfeld, '98.

The month of October was a very busy one in N. D. A. C. athletics. Our football team had suffered some loss from injured men, and by the addition of new material, yet by the recovery of some of the injured men our hopes were high for success in the return game with the University at Grand Forks.

The second N. D. A. C. team met the Casselton H. S. team Saturday afternoon, Oct. 24, at Casselton, and easily won by a score of 28 to 0.

The St. Cloud Game.

Oct. 10 the N. D. A. C. and the St. Cloud N. S. football team met at Fargo, resulting in a score of 4 to 4. The weather was raw and disagreeable. It rained the night before and left the gridiron in a muddy condition.

The teams were very evenly matched. Both, particularly the N. D. A. C., lacked team practice, owing to the earlyness

of the season; and the game was very close from start to finish. The N. D. A. C. claim the game, and are certain they would have scored another touchdown if the referee had not given the ball to St. Cloud, on their goal line, by an off side play. Lamont made the only touchdown for the N. D. A. C. and Ryan failed to kick goal on account of the muddy field.

Agricultural College vs. Crookston.

The Agricultural College Football eleven defeated the Crookston eleven, Oct. 31, by a score of 50 to 6.

The home team pitted against the Crookston team had a "snap" in every respect. The Agricultural boys will not weigh as much as the Crookston boys, but the Minnesotians, except two or three men, played as though they had never been in a game before. Roy Baker, the captain of the Crookston team, is a player of more than

ordinary ability. At no time during the game did the Crookston eleven show that they had one superior quality over their opponents. The game was won by long runs and long shoves, and the Agricultural boys made touchdowns as fast as the crowd could keep track of the game.

The features of the game that distinguished the home team were: Leo Ryan's line smashing, Millers work at right half back and C. Worst's kicking and work at left tackle, and Schollander's (was always in the game and made more than his share of tackles from the right end). Roy Baker, for the Crookston team, made one good run and got their only touchdown. He afterwards successfully kicked goal. The lineup was as follows:

N. D. A. C.		CROOKSTON.	
Henry	cen.	-	Mossefin
Brand	l. g.	-	McDonald
Milner	r. g.	-	Bradley
Ryan	r. t.	-	Evans
Worst	l. t.	-	Harris
Lec	l. e.	-	Westberg
Schollander	r. e.	-	Maloney
Hall	q. b.	-	Montague
Tucker	l. h. b.	-	Miller
Miller	r. h. b.	-	Walsh
Lamont	f. b.	-	Baker

Agricultural College vs. Grand Forks.

Oct. 28 the A. C. boys fell before the University football players in a hard and exciting game. The game was called at 3:50 o'clock on the Grand Forks Y. M. C. A. gridiron.

The choice went to the U., who chose goal, and the A. C. had the kick off. Worst kicked the ball in touch and it was brought back for another kick. He then sent it into the left side and the U. got ball for a short gain. It then went to A. C., but was lost on downs, and then Flannigan, the U's crack half

back, took the ball for a run around left and scored the first touch down for the U. in five minutes after the ball was put in play. He failed, however, to kick goal.

Ball then went to center for kickoff by A. C. The U. made some gains, but the ball went to A. C. on downs. The A. C. tried center rushes, but failed to make the required five yard gain, and the ball went to the U. Flannigan again scored a touch down for the U. The ball was pointed to Flannigan and the goal was kicked.

A. C. had kick off again—U. fumbled, and Schollander of the A. C. team got the ball, and they made some gain, but lost the ball on downs to the U.

After going back and forth the ball went to Fargo again and Ryan punted. Fargo again lost the ball to the U. and then Lamont got the ball from them and broke line and made the first touch down for the A. C. Ryan kicked goal.

The U. team then kicked off and Miller got the ball for a good run. The ball was then advanced, but was lost to the U. on a fumble, and Flannigan made another touchdown for the U. on the first down. The ball was then punted to Flannigan, but he failed to make a fair catch.

Fairchild, half back of the U., then made two successive touch downs for U., kicked one goal and missed the other.

The ball was then kicked off from center by the A. C. and after some hot plays the end of the first half was called. Score stood: U, 24; A. C., 6.

SECOND HALF—The U. kicked off and Miller got the ball, but it was lost to the U. and Norton made a touchdown on second down. Failed to kick goal. Worst then kicked for A. C., sending the ball over the goal line, and U. brought ball out to 25-yard line for run around the end. On the second down they played the "roll around" play for a good gain. Then they took a run for 25 yards more. After successive changes, Bickford of the U. got the ball on a fumble, and made a run around on left end for a touchdown. Failed to kick goal. On the kick-off Miller got the ball on a rebound and made good gain; then the ball went to the U. and Flannigan made a thirty yard run for touchdown. Kicked goal.

Then Flannigan made two touchdowns in succession for the U. Kicked one goal and missed one. Fargo had kick-off again, and got the ball on first down; Lamont got the ball and made a 25-yard run for touch down, and Ryan kicked goal. On kick-off by U. Miller got the ball and made a good run for 25 yards, but slipped and was tackled. If he had not slipped he undoubtedly would have made a touch down for the A. C. Fargo lost ball to U., but got it again on third down. Ryan punted and Fairchild caught ball, but was downed by Shollander in his tracks. The ball then advanced past center by bucking the line and runs around the ends and Miller made a fine tackle, saving a touch down. Still they gained and Flannigan again made a touch down, and

they kicked goal. Time for second half was called, score U, 58; A. C, 12. The A. C. boys played hard and were disappointed in the result. They played the game with new men in place of two of their best players, Carl Lee and Dor Tucker, who had been disabled in the Crookston game. Schollander played his position on the end to perfection. The three backs — Miller, Lamont and Ryan—worked hard. The remainder of the team did well, considering that the most of them are new men.

The U. boys played excellent interference and worked well together, showing that they had done considerable practicing. Flannigan, Norton, Bickford and Fairchild carried the ball well and followed their interference, which enabled them to make long gains.

Flannigan's playing is noteworthy, as he made eight of the twelve touchdowns made by the U. The line-up:

N. D. A. C.		U.
Henry	cen.	Wilkinson
Lee	r. g.	Stemmo
Milner	r. t.	Wright
Schollander	r. e.	Davis
Brand	l. g.	Johnson
Werst	l. t.	Nussles
Auringer	l. e.	Norton
Hall	q. b.	Ray
Miller	r. h. b.	Flannigan
Ryan	l. h. b.	Bickford
Lamont	f. b.	Fairchild

Mr. Crabbe of Fargo acted as referee, H. B. Curtiss as umpire, M. B. Van Vranken as lineman and Prof. Kaufman of the A. C. timekeeper.

Game at Crookston.

Oct. 29 Agricultural College boys played Crookston with the same line-up as at Grand Forks. The game was one-

sided all the way through, with the ball in Crookston's territory most of the time. The game was considerably delayed by inexperienced officials. Score: A. C., 20; Crookston, 0.

The Junior Football Team, though young in organization, has made for itself a good record, and promises to develop some excellent material with which to strengthen the first team. It was rumored in the early part of the season that the boys of the city were organizing a lightweight team and were desirous of arranging for a series of games with lightweights from the Agricultural College. As soon as this report reached the college the lightweights organized and elected a captain, arranged a code of signals and with a will began to practice. The range of weights of the players is from 120 to 140 pounds, making the average weight about 136 pounds. Most of its practice was with the first team and it may be said that most of its bumps and hard knocks were

received from that senior organization, for they were by no means inclined to act very gently towards the junior team. The junior team gave public challenges to any team of an equal weight within neighboring towns or cities. Casselton accepted and arranged for a game on Oct. 24. The game was a very clean one. It shows that Casselton, although it had the advantage in weight and speed, lacked in practice and team plays. They were to have played a return game on Saturday, Oct. 31, but early snow prevented. The line-up was as follows:

FARGO.	POSITION.	CASSELTON
Foley	c.	Henning
Benn	l. g.	Powers
Piper	l. t.	Cooney
Murphy	l. e.	Neyhart
Rustad	r. g.	Walker
Nordby	r. t.	Smith
Fowler	r. e.	Priewe
Oliver	q. b.	Mitchell
Porritt	r. h. b.	Hallett
Meinecke (captain)	l. h. b.	Morton
Gorder	f. b.	(captain) Landquist

Touchdowns scored by Fargo: Gorder 2, Porritt 1, Meinecke 2. Goals kicked: Gorder 1, Meinecke 3. Points: 28 to 0.

EXCHANGES.

We notice in one of our exchanges that Prof. H. L. Bolley of North Dakota Station had two papers before the meeting of the Society for the Promotion of Agricultural Science held at Buffalo, N. Y. They were entitled, "A Preliminary Report Upon the Relation of the Time of Seeding and the Period of Development to the Development of Rusts and Smuts in Oats" and "The Effectiveness of Corrossive Sublimate as a Preventive of Potato Scab."—Ex.

The University of Paris has over 7,000 students, and in this as well as other universities of France, there are no classes, no athletics, no commencement day, no college periodicals, no glee clubs and no fraternities.—Ex.

He called her Miss,
 And she called him Mister;
 They continued this
 Till one night he kissed her.
 Then this bashfulness
 They perceived was silly;
 Now he calls her Bess,
 And she calls him Billie.—Ex.

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dent; F. O. Ol-en, secretary.

Athenian Literary society—C. E. Lee, president;
Maud Bottenfield, secretary.

With this issue The Spectrum comes before the public as a representative of the monthly paper to be put up by the students of the North Dakota Agricultural College. It undoubtedly, in presenting the first issue, becomes our duty to render an apology for entering the field. The college, from time to time, sends out circulars, catalogues, bulletins, etc., in this way coming in contact with the people of the state. But there is one principal condition of many which is not answered by these circulars, etc. This condition is that of coming in contact with the student body more fully than heretofore. Certainly the College has done all in its power along this line, but without this

monthly organ they could not begin to accomplish what should be accomplished. In connection with this, we wish to acquaint the people of our state with what we have been doing along the different lines of study. It is also the aim of the management, that by glancing back over the separate numbers of this monthly, we will have before us, practically, a complete history of the institution for that period.

We feel thankful to the business men of Fargo for their interest shown in us by advertising in The Spectrum. Some of the business men of the city refused to advertise at all, but as subsequent issues appear, they will be more grateful and give us a share of their advertising. The existence of the paper being in the hands of the students entirely depends upon its own resources. We desire to call attention of the students that whenever they do any purchasing, to please glance over the paper and see what firms are advertising with us, and patronize them as much as possible. We believe in helping those who help us, and as at least one leading firm of the city of most of the important branches in business have advertised with us, it will be possible to carry out this plan successfully.

The great presidential election is over and the handling of the reins of government is practically decided for four years longer. Politicians claim this election the most exciting contest the nation has ever witnessed, and although the re-

publican candidate was elected by a majority of nearly a million popular votes, both candidates have made a vigorous fight and both deserve congratulations.

The student's college life stands out as a group of years where every hour and every association is preparatory to his actual lifework which is to follow. It is in one sense a trial period where each one takes his measure over and over again, correcting it here and improving it there, so that he may fit into the niche he expects to fill. Few men leap into prominence. The road that leads to it is a slow and painful one, and beset with many discouragements; yet, to those who persevere the goal will at last be reached. Many over or underrate their ability, and so stamp failure or mediocrity where more careful judgment would have resulted differently. It is a mistake to suppose that the profession chosen will materially aid one in achieving success. The first requisite is the taste and the natural qualities for some particular calling or profession and the inclination to dignify that business with painstaking application. The lowest calling can thus be made eminently respectable as well as successful. The man who chooses a profession because of its supposed natural dignity and not because he has native qualifications for it, will only lower the profession without elevating himself. It is far more creditable to stand at the head of some humble avocation than to rank low down in law, medicine or theology. The world needs mil-

lions of honest, courageous, competent men in all the lower walks of life and but few in the so-called higher circles.

The student with a purpose in view and determined to acquire an education, will seldom find occasion to complain of his instructors or of his surroundings. Many of our most illustrious men came up through meager advantages and yet passed millions who had every encouragement that wealth and ease could afford them.

It is claimed that Mr. Edison and Nikola Tesla are independently working out a new system for lighting based on the vacuum tube phenomena, a subject in which Mr. D. McFarlan Moore claims to have made a great advance in the invention of his vacuum vibrator.

Our exchange list, though constantly increasing, is as yet very small, and we invite all editors to whom this paper is sent to exchange with us.

A writer wants some eminent agriculturist to explain why pumpkin and watermelon vines always grow crossways with the row.

An exchange says: "Edison has, by the aid of X rays, enabled a blind man to see through an inch plank." It is his "latest."

Winter term begins Jan. 5, 1897, with every prospect of having the largest enrollment in the history of the college.

The fall term closes Dec. 24 for the holidays.

LOCAL HAPPENINGS.

F. G. BENN, '98.

A. E. SMALL, '98.

Hit mules!

Study Hours, 7:30 p. m.

Padlocks on apple barrels.

Apples! Apples! Apples! \$6 a barrel.

Miss Senn has a large class in Domestic Economy.

Olaf Nordby, who has been very ill with typhoid fever, is convalescent.

Professor Waldron has been sick for a few days, but is again able to attend to his classes.

Miss Anna Gordon, who has been quite ill, has recovered and has again resumed her studies at the College.

The present course compels the Juniors and Seniors to deliver one oration in the College Chappel during each term.

Owing to the bad weather, the Casselton foot ball team was not able to play the return game with the lightweights.

Supt. Butler will commence his duties at the College the first of next term. He will teach Civics, History, Arithmetic and Pedagogy.

Dr. Hinebauch is reviving gastronomic memories through the amber medium of two whole barrels of cider sent from his "Home, Sweet Home."

There is an attendance at present of about 135 students, and as students are constantly coming in, it is expected that there will be over 200 in the winter term.

A mandolin club has been organized by the students, consisting of Misses Maude Bottenfield, Angie Gibson, Iona Senn, and Messrs. Yoho, Hall and Freeman.

The boys' dormitory is rapidly being filled, and by the way students are coming in at present, it will be filled at the beginning of the New Year.

Miss Ollie Worst spent Thanks-

giving with Miss Marie McQuoid, in Wheatland.

Misses Hodges and Small and Mr. Matson spent Thanksgiving at their homes in Mapleton.

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

It is said that Prof. McArdle has made inquiries concerning the lowest possible price of certain residence property in Fargo for investment.

Messrs. Murphy, Tucker, Ward, Rustad, Wickman, Fowler, Greene, Gorder, Milner, Brand, Pipcr, Meilcke and Ditmer spent Thanksgiving at their respective homes.

Miss Morgan has arrived from Mandan, where she has been teaching. Miss Morgan will take up her advanced studies in order to more thoroughly fit herself for her duties.

The gas machine at the green house which has been undergoing repair for some time, is now in working order. It has caused considerable inconvenience to students working in the chemical laboratory.

Owing to climatic conditions it is necessary to run the College bus, which is for the accommodation of the lady students, only. Time schedule is as follows: The bus will go south on Thirteenth street and stop at the

Milwaukee depot—7:20, a. m.
 W. F. Taylor's residence—7:30 a. m.
 Arlington Hotel—7:35 a. m.
 Day's Drug Store—7:37 a. m.
 Perry's Grocery—7:38 a. m.
 Great Northern depot—7:40 a. m.
 thence to College. The bus will leave the College daily at 12:10 and 4:40 p. m.

The new Physical Laboratory is almost completed and will be in use next term. This addition is quite an improvement to the institution.

Pres. Worst and Prof. Shepperd have returned from Washington, D. C., where they attended a meeting of delegates from all the Agricultural Colleges and Experiment Stations.

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

Bulletins No. 24 (North Dakota Soils) and 25 (Tree Culture) of the N. D. Experimental Station, which were written by Professors Ladd and Waldron, are now ready to be sent out.

A lecture on the Yellow Stone Park was delivered in the College Chapel Nov. 24 by Rev. Mr. Gifford of Grand Forks. It is one of Mr. Gifford's best lectures and was much appreciated by the large audience.

Thanksgiving Day was an enjoyable one at the Dormitory, the young ladies of the Farm House being present. An excellent dinner was partaken of at 1:30, after which games were played and several songs were rendered by the Male Quartette.

A short time ago some of the students were imbued with the desire to taste some of the apples in the cellar of the Dormitory. A consultation was held and a few of the trusty ones were selected to go on the expedition. The cellar must have been reached without mishap, as an inventory was taken the next morning and the apples were found to be missing. All "scrapes of this kind come to grief, as the participants in the above affair found when they came to pay double the value of the apples. Since then the boys are buying their apples instead of purloining them.

The Philomathian Literary Society has adopted a new method of rendering programs. Instead of delivering a public program every two weeks as in the past, a private one will be held, in which the works

of some author will be discussed and at the end of each term a public program will be given in the Chapel. The first program under the new plan was held Friday, December 4, the works of Will Carleton being studied. The next program will be held Dec. 18th, and will be a discussion of the works of James Witcomb Riley.

President Worst expresses himself as well pleased with his recent trip to Washington, D. C., and thinks no true American can visit the Capital of our country without a feeling of pride for the institution we have. The meeting of the American Association of Agricultural Colleges and Experimental Stations was very interesting, and this new system of practical education is already passing the "Century-Old System" in the more progressive states. The Science Courses, as taught in the land-grant colleges, recommend themselves and stand upon their merits. It is also probable that within two years a department of Naval Engineering will be added to each land-grant college with an additional appropriation of \$15,000. President Worst also made arrangements with Gen. Ruggles for a military detail and cadet rifles.

A few weeks ago the members of the Junior Class desired to have a sleigh ride. As there was to be a lecture that night, they thought it would be an exceedingly bright plan to "take in" the lecture on their way to their destination, which was the residence of Prof. Bottenfield, where a candy pull was to be participated in. Their means of conveyance consisted of a span of mules and a pair of "bobs." After the lecture they discovered that the mules had disappeared. The outlook appeared very blue for a while, as it was bitter cold and the prospect of a walk through the deep snow had no charms for them. Finally they proceeded to their destination on foot, and after having a merry time their driver succeeded in again securing the mules. They then took their sleigh ride; thence home. It has since come to light that the Preparatory students "stole the mules."

THE ALUMNI.

Mr. R. D. Ward, '95, has since graduation been in the stock business with his father at Bismarck.

Mr. R. B. Reid, '95, during the last summer has been buying wheat at Chaffee, N. D., but now is at his home in Amenia, N. D.

Mr. J. W. Hilborn, '95, has been teaching school for the past year, but later reports have it that he has gone into business in Leal, N. D.

Mr. Olaf P. Nordby, '96, has since graduation been at the college doing special work in dietary studies, food analysis and food adulterations under the supervision of Prof. Ladd.

Mr. Merton Field, '95, has been employed by Prof. Bolley for the past year as assistant in Botany and Zoology. Mr. Field's special line is Bacteriology. He has been engaged for another year.

Mr. C. M. Hall, '95, has been engaged as assistant in the Chemical Department of the College for another year. After this year he intends to leave us and take up an advanced course in chemistry in John Hopkins University.

FORMER STUDENTS.

Mr. Andrew Sinclair, who attended here in the winter of '92, is now County Superintendent of Schools in Griggs County.

Peter J. Beltz, who attended here in '93, has a general merchandise store at Buxton, N. D., and is manager of the large Gould farm.

Chas Dunlap, a student of the winter of '92, has been County Treasurer of his County and is a large farmer at Michigan City.

Hon. H. D. Hurley has since attending the College been a member of the State Legislature, and is spoken of in the state papers for Speaker in the House.

Hon. Knud Nomland, a student of the winter of '92, has since then held the important office of state treasurer and is one of the bonanza farmers of Traill County.



"You'll be sick, Willie, if you eat any more cake!"
"Oh, no I won't Papa. Mamma made this with Economic Baking Powder, and that won't hurt anyone!"

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