



# THE WEEKLY SPECTRUM

Published every Tuesday of the school year by the students of the North Dakota Agricultural College, at the Ulsaker Printing Company, 519 Second Avenue, North, Fargo, N. Dak.

Edwin M. Evingson, '12.....Business Manager

The Weekly Spectrum appreciates contributions of local interest from anyone. These should be addressed to the editor. Cases of non-delivery and other business matters should be referred to the business manager.

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This term we have a large number of students who are with us for the first time and who intend to stay here only one term. One term is a very short time to spend in school. No person can hope to accumulate any vast amount of knowledge in such a short time. Something every one should do, however, is to make the very best of the opportunities they have here. Get into sympathy with the work being done here. Get into contact with the men who are doing things, and get in touch with the literature which is being sent out from this and other stations.

The best way of becoming acquainted with the college is to take an interest in college activities. Try to see all the basketball games. They are far more interesting as soon as you learn something about the game, than any of the cheap shows down town, and deserve your patronage very much more. During the winter you will have an opportunity of hearing many splendid lectures. These are well worthy of your attention. Those on the citizens lecture course which is given in the armory, are especially worthy of your support. The price of admission is very reasonable, barely covering the cost of having these speakers with us. The first number of the course comes tonight, when John Guncel will give a lecture you cannot afford to miss.

We hope that the stay of all short course students will be both pleasant and profitable, and that after a term's work here they will leave with a better impression of the A. C.

At present the prospects for a band tour during the winter are not the best, as the expenses of the trip would be quite large. The band boys have not given up hope yet, but are discussing plans on how they can get away. The trip they would like to make would be up the Great Northern past Hillsboro and Grand Forks to Grafton. Then back past Grand Forks and west to Devils Lake, perhaps playing at some point on the way. From Devils Lake they would go west to play at Minot, and perhaps at some intermediate point, and then back over the Soo to Carrington, and south over the N. P. to Jamestown, from which place they would come home. Such a trip would take a week. It would be of great advertising value to the school, would create enthusiasm in the band and would furnish some splendid recreation for the band boys.

There has been some talk about the campus of organizing a boxing and wrestling club which would afford a suitable exercise for those who do not take part in basket ball. Boxing, if taken in the proper spirit, is a very good exercise and would undoubtedly become very popular in the institution if a club could be organized. There are a number of men in the institution that are fist performers of no mean ability who could be of much help to others who wish to become more proficient in this line.

Boxing as a professional game is brutal and repulsive but there is no need of it becoming brutal as a college sport. In larger universities there are boxing and wrestling tournaments conducted and much interest is taken in this branch of sport. A number of students who frequently indulge in the art and find it a very suitable exercise have been talking of organizing a club.

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### TEACHERS TAKE SPECIAL WORK IN AGRICULTURE

During the past term some of the instructors in the Fargo and Moorhead schools have been taking special work in Agriculture on Saturday mornings. These people see the significance of the great movement in the country today for agricultural education and are trying to get in sympathy with it. As there is only one recitation every week, most of their efforts are directed at supplementary reading. During the past term, they have been studying agronomy under Professor Dynes. In the winter term they will take up Animal Husbandry under Professor Richards, while in the spring term their efforts will be directed towards the study of soils.

### Labor Savings Appliances For Agricultural Dept.

Several kinds of computing machines are being tried out by the Agricultural Department. This department has to do an immense amount of computing in compiling results from the vast amount of experimental data which is being worked out from time to time. All of this computing has to be done accurately so it has become necessary to secure some computing machine for doing the work. The machines being tried out at present are the Brunsviga, Peerless and Comptometer, while one of the newest Burroughs machines is expected in the near future. All of these machines have some points of excellence so it will require some time to determine which machine will be purchased.

### Secure Good Bulletins: They Cost You Nothing

The following Press Bulletins may be had by any teacher in numbers sufficient for class work, upon application. At present we have the following for such distribution:

- No. 2. Seed Wheat.
- No. 11. The Uses of Formaldehyde on the Farm.
- No. 18. Selecting Potatoes for Seed and Treating to Prevent Potato Diseases.
- No. 23. Resistant Seed Flax and How to Get It.
- No. 25. Types of Machinery Necessary for Use in Spraying for Destruction of Weeds in Cereal Grain Fields.
- No. 27. On the Uses of Chemical Sprays in Destroying Mustard, Kinghead and Other Weeds in Cereal Grain Fields.
- No. 28. Canada Thistle, Means of Holding in Check.
- No. 29. Quack Grass, How to Hold It in Check.
- No. 33. Deterioration in Wheat Yields Due to Root Rot and Blight Producing Diseases.
- No. 39. Growing Flax on New Lands.
- No. 40. Growing Flax on Old Lands.
- No. 42. The Essentials of Flax Cropping for Seed Production.
- No. 44. Relation of the Corn Crop to Flax, Wheat and Other Cereal Cropping.
- No. 46. Flax Culture.

The following new books have been received at the library:  
Encyclopaedia Britannica, 11th ed., 28 volumes.

- Collections of the State Historical Society in North Dakota.
- Webster's New International Dictionary.
- The Mind of Primitive Man.—Boas.
- Farmers of Forty Centuries.—King.
- Progress and Prosperity.—Washington.
- The Standard of Living Among Working Men in New York.—Chapin.
- The Story of the Cotton Plant.—Wilkinson.
- Cotton Spinning.—Marsden.
- Silk.—Corticelli Silk Mills.
- Goodwin's Course in Sewing, 3 volumes.
- Domestic Art in Woman's Education.—Cooley.
- How We Are Clothed.—Chamberlain.
- Cotton Weaving.—Marsden.
- Two Centuries of Costume in America.—Earle.
- Science and Hypnotism.—Poincare.
- Principles of Science.—Jevons.
- Force and Matter.—Buchner.
- Short History of Natural Science.—Buckley.
- Life After Death.—Fechner.
- Human Immortality.—James.
- Kant and His Philosophical Revelations.—Wenley.
- Mere Literature.—Woodrow Wilson.
- Introduction to Philosophy.—Kulpe.
- Magda.—Sudermann.
- Fundamentals of Child Study.—Kirkpatrick.
- Youth, Its Education, Regime and Hygiene.—Hall.
- Educative Processes.—Bagley.
- The American High School.—Brown.
- Classroom Management.—Bagley.
- Aspects of Child Life and Education.—Hall.
- Great Pedagogical Essays.—Painter.
- American Schools, Their Administration and Supervision.—Chancellor.
- A History of Education in the U. S.—Dexter.
- High School Administration.—Hollister.
- The Principles of Teaching Based on Psychology.—Thorndike.
- The Government of N. D.—Boyle.
- 'Atlas of the World.—Hammond.
- Manual of Poisonous Plants.—Pammel.

The farmers' institutes are now being held throughout the state. On Wednesday an institute was held at Hannah. The speakers were Supt. Hoverstad, Supt. Stewart of Langdon, and Prof. Palmer. On Thursday an institute was held at Edinburg. The speakers at this meeting were Mr. Palmer, F. W. Merrill, of U. S. Dept. of Agriculture, and Theodore Kristjanson.

This week institutes will be held at Rugby, Devils Lake and Kindred, and the following week will be spent at the Grain Growers' Convention. The other meeting scheduled for January are: Leeds, Jan. 22 and 23; Bantry, Jan. 24; Surrey, Jan. 26, and Berthold the 27th.

### ALPHA ZETAS HAVE FEED.

The local chapter of the fraternity of Alpha Zeta gave a banquet in the banquet room of the Copper Kettle Inn last Tuesday evening. A good four course dinner was partaken of by about thirty people. Those attending were the active alumni and honorary members of the local chapter. Thomas Cooper, of the Minnesota Chapter, and secretary and manager of the North Dakota Better Farming Association, and one of his assistants, J. V. Bopp, of the Illinois Chapter, were guests of the local chapter. Those of the members, who are doubly blessed, brought their wives and made sport of their more unfortunate brothers. Prof. Donehue made good a toastmaster, and coaxed some short talks from Dean Shepperd, Thomas Cooper, Mrs. Shepperd, Supt. Lanxon, Edwin Traynor, and Thomas Calnan.

### A SAD CASE OF DESERTION.

Another bluff was called last Friday evening, when a party consisting of Lawrence Tibert, Grover Cleveland Edwards, and coed friends were leaving Pirie's Cafe. One of the young men, filled with the spirit of the indispensability of man, called the attention of his fair charge to the absolute necessity of himself as her escort. Thinking to slightly reduce the unmistakable enlargement of his cranium, the coeds struck off down Broadway together, and held up Dick Bjornson for his last dime. Returning to Stern's corner, they found that their bluff had also been called, when they caught a fleeting glimpse of their escorts entering the Or-

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phum. The next car brought the sad, but wiser, maidens home, where they are now planning dire revenge.

### ATHENIAN PROGRAM.

To be given Jan. 12, 1912.

- Instrumental Duet.....B. Barrett
- President's Address.....H. Bachman
- Humorous Reading.....A. Ewen
- Current Events.....E. Evingson
- Piano Solo.....U. Ebner
- Locals.....Maud Engle
- Selection.....Leila Ewen
- Alumni Dope.....Gertrude Gibbens
- Piano Solo.....Levi Thomas
- Selected.....Selected

### BAND REHEARSING DAILY.

The Cadet Band is rehearsing quite hard these days, getting in trim for the concert to be given by the band at the operahouse Wednesday evening, Jan. 17th, at 7:30 o'clock. The Crack Squad, although handicapped by several members adding a week to their vacations, is being drilled every day, and will give an exhibition at the operahouse, as the opening number of the evening program Tuesday, Jan. 16th, at 7:30 sharp.

### JUNIOR PROM JAN. 26.

The committees in charge of the Junior Prom, which will be held Jan. 26th, are making elaborate plans which are expected to eclipse all attempts made by preceding classes along this line. Invitations will be sent out this week to non-students. The price of tickets has not been definitely fixed, but will probably be higher than formerly on account of added expense in every way.

### Special Rates to Students

The exchange of photographs of class members and fellow students should not be overlooked because of the many reminiscences and associations they will recall in years to come. You will then value them more than you perhaps do now.

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Later: After deliberating on the extra cost of this Prom over that of last year, when there was a slight deficit, the Juniors have decided that the price of tickets will be \$3.00.

### STRICTER LAB RULES.

The rules for working in the biological laboratories have been made stricter than formerly, owing to the fact that students have not been careful and have allowed apparatus and unfinished work to accumulate until it becomes well nigh impossible to do satisfactory work, besides creating a very unfavorable impression on visitors. The rules now require that the students in the laboratories must, when they finish work, put away all apparatus and supplies with which they have been working, and if places have been assigned for the apparatus, it must be put in the proper place. If a student desires

to work in one of the laboratories, he should apply to the professor in charge for a place in which to do his work and for storage of his materials. The tables are supposed to be cleaned up after work, and the students should remember that no one is hired to do the work which they should do.

### MORE FIREARMS ARRIVE.

Fifty new guns, side arms and belts have been received, and cleaned up by the military department. Co. A will be issued the new arms and tan belts.

M. B. Johnson, formerly assistant superintendent of demonstration farms, is in the city. He will begin work under Thomas Cooper in the interests of Better Farming.

Declamatory Contest, Feb. 2nd. Get busy.

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**BOLLEY ADVOCATES SEED GROWERS ASSOCIATIONS**

On Jan. 4 Prof. Bolley attended the Crookston Short Course School of Agriculture, and during the day delivered two addresses. He spoke in the morning on the subject "Crop Rotation and Plant Diseases." He said that crop rotation is no new idea, but except in a few counties, it is not practiced as it should be. Lack of consistency is a great weakness. In some cases fertilization is carefully followed out, but poor crops follow, a result which Prof. Bolley attributes to plant diseases in the soil. He discussed potato, flax and wheat diseases as examples to support his theory. Seed selection and treatment was pointed to as a remedy.

The afternoon address was on the subject of pure seed. He said that we should have state and national laws to prevent foul seed being distributed and sown. There should be a seed control laboratory in each state. With such a laboratory farm crop rotations would be greatly improved. He advocated the formation of a seed growers' association to prevent further deterioration of farm crops. All seed grain would be examined and that of superior quality would be listed for sale and the members of the association could raise the value of their crops by purchasing this seed. Both lectures were listened to with great interest and followed by lengthy discussions.

**FALL TERM LIBRARY REPORT**

The number of books drawn from the library for home use during the fall term was 2380; of this number 55 books were history, biography and travel; 228, literature; 126, fiction; 139, agriculture; 40, domestic science; 701, periodicals and 388, not including the large number of magazines, pamphlets belonging to the Extension Department, books of various kinds used in the reading rooms by the students of this and other institutions, or the books used for reference in the departmental libraries.

The number of new books added to the library by purchase during the year was 257.

There are about two hundred newspapers of the state to be found in the library; these are received as exchanges for the bulletins and reports of the experiment station.

About one hundred farm papers are also received as exchanges.

The list of periodicals to be found in the library numbers 90; this number does not include the periodicals which are kept on file in the different departments.

**AT THE GRAND.**

The lecture next Sunday night will be one of interest to A. C. students. Dr. Gottfried E. Hult of the University, will give a new lecture which he has prepared, on "The Mind of Shakespeare." Dr. Hult was formerly professor of English at this college, and his lectures in this city are always well attended.

During the past two weeks Prof. Bolley has employed from ten to twelve students preparing bulletins for circulation. These bulletins are mostly on wheat, flax, and pure seeds. They are now ready for mailing and this will be one of the largest mailings ever made in North Dakota for there are 125,000 bulletins, \$0 to 90 thousand of which will be mailed to different people in North Dakota. The others will go mostly to Minnesota and South Dakota. The weight of these bulletins is 3 1-2 tons.

Among some of the most necessary apparatus received by the biology department is a new carbon dioxide tank with a freezing microtome so that plant materials can be frozen at will. This will greatly increase the number of experiments which can be performed and will help in a score of ways.

During vacation Prof. Doryland visited his home in Kansas and then took a trip to New Jersey, on strictly business reasons. He is at a loss to explain why so many people are offering congratulations, but wishes to set all rumors at rest by saying—nothing doing.

Prof. O. W. Dynes went to Valley City Saturday to judge the exhibit at the One Hundred Dollar an Acre Association meet. This meeting was attended on Friday by Prof. Sheperd.

**CONVOCATION.**

There were a larger number of students present at convocation on Monday than at any time for the last year. The reason was obvious, as President Worst spoke, and it also being the first convocation of the winter term. A new system of seating was brought into force which is a great improvement on the old. After Prof. Minard had made the announcement he introduced President Worst and it is needless to say he received a ready welcome.

President Worst talked to the students upon their conduct during their time at school and home, and told them that if they followed their own conscience of right and wrong, and behaved like ladies and gentlemen at all times, that they had no need of fear of the college authorities. His speech was, as his talks always are, full of good advice and showed his interest in the students and people of North Dakota and it is the hope of the student body that we may hear Prexy again soon.

**NEW APPARATUS FOR PHYSICS LABORATORY.**

Some more splendid apparatus has been added to the physics laboratory. A finely adjusted anemometer for the measuring of the velocity of the air to be used for determining the amount of air passing through heating flues, etc., has been purchased.

One of Wolperts air testers has been secured. This is a very compact little instrument for the measuring of the carbon dioxide and other impurities of the air. With this device, a sample of the air of a room can be carried away in a pocket and tested hurriedly. Some electro-dynamic charts have been ordered which are especially fine. A new polariscope has been secured which is especially suited for student laboratory work. A new combination volt and ammeter is a very convenient piece of apparatus which can be used for many purposes. A large number of 6 volt lamps have arrived which are to be used in experimenting with individual lighting plants. Eight selenite films have been ordered for laboratory work. The most ingenious and interesting new piece of apparatus is a new transformer made by Harrison Bunt in the shops and laboratory. This transformer is so made that a 110 volt current can be stepped down to almost any voltage between 2 and 110 by simply moving a lever. This device, like other apparatus Mr. Bunt has made, is so well made that it could not be distinguished from a piece of apparatus made by any of the best manufacturers of scientific instruments. Our physics laboratory is rapidly becoming one of the best equipped in the country, especially for practical purposes.

During vacation Prof. Miller was busy mounting a collection of weeds which he made during the past summer. These weeds together with the seeds as a separate collection known as weed seed collection No. 1 are to send out through the state and to the agricultural high schools in order that the people interested may become acquainted with the most common weeds and the seeds which they produce. Twenty-six of the weeds most common in North Dakota make up this weed collection No. 1. During the past summer enough weeds have been pressed to make 100 sets.

Dr. and Mrs. Bell spent their Xmas vacation at the home of Mrs. Bell's parents at Elkader, Iowa.

Wilbur Rankin has assisted the station in the enumeration of the fertilized ova of the wheat plant and in other similar scientific investigations.

The race is on. Moorhead Normal fell. Who is next?

Despite the advice of the Spectrum, many students continue the practice of coming back a week late after vacation.

Campbell: "Say, is Vernon Arvola Prof. Arvola's son?"

Prof.: "Have you ever taken chloroform?"  
Student: "No, what hour does it come?"

Dr. Bell and family spent their Christmas vacation in Iowa.

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