Natural History Society.

An interesting program was given at the meeting of the Natural History Society, Friday evening. Mr. Greene gave an interesting talk on the diseases of the apple, illustrating his talk with many drawings and charts. Mr. Greene said there were 100 different diseases which attack the apple tree; of these, three were serious, of which he mentioned three, viz., apple scab, powdery mildew, and fire blight. He said the apple scab attacks both fruit and leaf, and appears in spring as an orange speck, gradually becoming darker. It grows more rapidly in cool weather, and is more common in the lighter colored varieties. The powdery mildew attacks young trees, and is one of the worst enemies of the nurserymen. It spreads rapidly from tree to tree and reduces their vitality. Fire-blight acts as an epidemic, and until recently has been little understood by horticulturists. It originates from a germ, and is conveyed to the trees mostly by insects, the green flies. As the berries ripen, so does the foliage. This blight consumes the stalk in the tree, and often is found on the sunny side of the trunk, as the cracking of the bark makes a good place for germs to enter. Mr. Greene also mentioned that the apple leaf rust, showing how it originated from red cedar. The spreading of this disease is that five species of turtles are common at M. A. C. hence no reliability can be placed on words in regard to the turtles. Five species of turtles are common at M. A. C. which may be quite remote from the football team. So young, so innocent, to bear and we can only sit down, to poison other teams with, but not a theory. The Alma football game cost $5,000 more than the receipts amounted to. If an opportunity offer for making up that deficit, let us embrace the opportunity.

Water for Domestic Animals.

About twelve years ago, the fact was first realized that a bacteriological study of drinking water was essential for the establishment of health. Since that time, little else has been done than to consider it for the benefit of mankind only; the question of water supply for domestic animals has been much neglected. I am inclined to think that it has no little significance.

It is quite probable that epidemic diseases arise from the diagnostic powers of a veterinary surgeon, might be accounted for by a bacteriological analysis of water or food supply. It is not an uncommon experience to have several domestic animals of a single farm die rapidly in large numbers from unknown cause, and this epidemic, strange as it may seem, does not pass beyond the limits of that farm. Seem is the water supply thought of, because it is usually thought of as the germ of disease; the animals are immune to the bacterial content of any water. Such an animal is usually found to be an Ohio, Texas fever or some other highly contagious disease which may be quite remote from cause in fact.

I wish to cite a case which came to my notice in January, 1896, and which I am led to force to the above statements.

A veterinarian in New York State, agregating of Toronto, found several horses sick on a farm owned by a very intelligent man. The disease could not be satisfactorily diagnosed by him; consequently he began to investigate their surroundings very carefully. In the process of his search he noticed that the well from which the horses obtained their water was under the barn, and that the water received it through the drainage from the barn yard. He at once ordered the water dis- sected and found there was a lumber shed very shut to the cause of the trouble. He at once sent a sample to me for a bacteriological analysis.

The analysis was made in due time and a micro-organism was isolated which was intensely virulent in its nature, very much virulent to experimental animals than the usual pathogenic or toxicogenic microorganisms found in drinking water. This operator had obtained his water from the farmer who was a close neighbor. Further, I found that a similar case had been established in this State, as reported, as the situation of a micro-organism had been found in the drinking water for domestic animals and it was fatal to horses which had used it.

Both of these cases were studied here and there, and we are advised only by the request of parties concerned. What would be the result if we were able to follow work from time to time I am unable to state, but I suspect that the fruit would be as abundant as from the study of water for mankind.

We cannot pollute the water for our domestic animals as we can the water for ourselves. It may be "me, then my dog," but it should not be all "we."
The weather is usually too hot and dry in summer to grow good lettuce. It is necessary to cool the better lettuce of the two, though its small cabbage-like heads suffer in comparison with its large, thick, firm lettuce which has many more attractive features. It is far more difficult to grow, with each other to see who is to leave the work in less experienced hands. More glass houses are being used for forcing, and the climate is adapted for other vegetable purposes besides lettuce—a feature too often neglected in constructing greenhouses. It has not been in operation a sufficient length of time to enable us to draw any fixed conclusions; its chief value consists in its being strictly an experimental house.

Several varieties of lettuce are particularly adapted for forcing. The variety known as Grand Rapids is perhaps the best, especially in the middle and western states. It is a rapid grower and forms large loose heads with wrinkled, tender and erect leaves, and is exceptionally free from disease. It is perhaps due to the wonderful adaptability of the variety to a spring season that the business has reached its present magnitude. In the East where the market is more critical, the variety is not in as great favor. That known as Boston cabbage is preferred.

When the leaves are detached from the shortened stem, they are quite rigid and can be used as dishes for practice. They are particularly adapted for forcing, and are so grown in hot-water pipes laid in the ground in rows.
of manual training, is also of first importance in the three-fold purpose of education. Its aim may not be to turn out mechanics, while it does train the faculty of attention and develop powers of concentration. It unrolls or unfolds strength and energy which any woman may meet to turn out mechanics, while it does. Without a question it furnishes an impetus in that direction for while they should be gaining breadth of mind and muscle, and developing powers of concentration.

The opportunities in these directions open to the young women of the present day cannot be too greatly appreciated, and not to avail one's self of their benefits is to live a life of waste and uselessness. The strong, capable, self-reliant and individualized woman, which means the womanly woman, is the coming ideal and the efforts of the present must see that the demand will be supplied. The avenues open in the schools and colleges of to-day are not all farmers or mechanics. Bemis Pierce, captain of the team, and Haffey Pierce are working to become stationary engineers; Smith, Neubauer, Wheelock, Mettlen and Miller will be blacksmiths; Rogers and Redwater, carpenters; Hudson, an engineer; Jamison, a painter, and McFarland a coachmaker.

**Veterinary College.**

The Veterinary Department at the Detroit College of Medicine is now fully equipped, under the supervision of Prof. E. A. A. Granville, V. S., late professor of Veterinary Chemistry at the Agricultural College. This department is prepared to furnish instruction in the science of medicine as applied to dumb animals. Send for catalogue to Prof. Granville, principal.

**Hiram Riker Brand of Lumber.**

The House that Jack Built—Next have been from the good old Simons Dry Goods Co.

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**Special Sale for M. A. C. Men Only**

$3.12

Next Saturday, Nov. 20, we will offer M. A. C. men our Four Dollar Box Calf Shoes, made up on the new round toe last, heavy double sole, extension edges, large brass hooks and eyelets, at Three Dollars and Twelve Cents a pair.

**Notice:** We have a line of Men's Robes this season made from strictly PURE GUM, rolled edges, extra thick at toe and heel. Outwears all others.—C. D. W.

G. D. WOODBURY.
The Eclectic Society held its regular literary meeting on Friday of last week and entertained ladies.

The chemical department has already received more than 400 samples of sugar beets, and samples are still coming in at the rate of about 25 a day.

Mrs. Charles Oohland and daughter, Miss Gussie Ohland, who have been visiting Miss Clara Ohland, have just returned from their stay in Saginaw the past week Monday evening.

Mrs. W. L. Rossman, of Chicago, who has been spending several weeks in Lansing, has returned home. She called on College friends Thursday.

Dr. Waterman (to class in veterinary science) "To test a horse for blindness place your finger near his eye. If he isn't blind, he'll wink; if he is, he will simply stand and look at you."

Station Terrace, otherwise known as "Bachelors' Hall," is undergoing numerous changes for the better. Electric lights, a hot-water heater, and bath rooms are among the innovations the Bachelors expect to enjoy this winter.

The meeting of the Y. W. C. A. will be held Wednesday evening, Nov. 17, at half past six, in Abbott Hall parlors. The subject is "Charity," lesson to be found in the 13th chapter of 1 Corinthians. Leader, Miss Edith Smith.

Weather almost put a stop to work on the exhibition of the street car line. However the trestles and steel are all in place, and the poles have been erected. Should we be favored with a few days of good weather this week we may hope to board the cars for church next Sunday at Station Terrace.

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The Co-operative Book-buying Society has been organized for the benefit of the students, and the society expects to return at the opening of the College this fall."

"I am glad to learn that all things are going well at the University of Michigan. His address is the College Free."

"Mr. Rose is also well known at the College. In fact he is a junior in our mechanical course. The REC

New students continue to arrive.

Hon. C. J. Monroe was at the College on business Friday.

Miss Amy Vaughn spent Saturday in Detroit.

Our first snow fall came last Thursday.

Miss Vesta Woodbury, '01, received a visit from her mother one day last week.

Miss Florence Place, of Invis, was the guest of Miss Amy Vaughn Friday afternoon and evening.

Mrs. Ella M. Kedzie has opened a room in the Hollister block, Lansing.

Recent additions to the library include a number of books on subjects allied to domestic economy.

The Co-operative Book-buying Association has already sold amounting to over $1,900 this term.

Miss Irma Thompson's chalk talks are said to be realistic and mirth-provoking.

Miss Marion Graham, '01, recovered sufficiently to go home last Friday. She will not return until next term.

George B. Wells, '00, umpired the game of football between Albion and Kalamazoo at Albion Saturday.

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