BASKETBALL SEASON OPENS.

The basketball season of 1903 opened at the M. A. C. when the Detroit Y. M. C. A. team was beaten in the armory last Wednesday by the M. A. C. team of 49 to 34. The Y. M. C. A. is considered a strong team and the size of the score is very satisfactory to M. A. C.

The new court in the center of the armory made it possible for every one in the audience to see all points of the play, a thing that has not been possible in games heretofore. The audience was probably the largest that ever attended a basketball game at the College and there was no lack of enthusiasm from start to finish.

M. A. C. wore the new suits for the first time in a game and the contrast in color between the suits of the home team and those of the Y. M. C. A. made the game particularly interesting. Of course under the spectator's point of view. The hour set for beginning the game was seven o'clock but it was quarter-thirty when play began. M. A. C. was the first to score, Haftenkamp throwing a basket after eight passes. Tuttle then added to his score and after four passes had been made. The score soon stood six to two in favor of M. A. C. and then six to four but after this the Y. M. C. A. team never appeared to have any chance to win.

At the end of the first half the score stood 21 to 7. In the last half M. A. C. ran away with the Y. M. C. A. and scored almost at will. Nine fouls were called on each side but only seven points were scored as a result of the penalties.

The Y. M. C. A. team is made up of a husky set of fellows and during the first half they played well but the superior team work of M. A. C. in the second half seemed to discourage them. The audience missed Blancard and Cooper, who have taken their places, played creditably. Tuttle, in particular, played cleverly, never losing his head and making some very difficult passes. For general all-around playing, however, Balbach should be mentioned. He was the Y. M. C. A. game present.

The line-up:

M. A. C. — Haftenkamp, 1; Tuttle, 2; Baskets: Haftenkamp, 10; Balbach, 7; Tuttle, 5; Tower, 4; Schoen, 3; Baskets: Haftenkamp, 5; Balbach, 6; Tuttle, 2; Tower, 1; Schoen, 1.

Y. M. C. A. — Haftenkamp, 1; Tuttle, 2; Baskets: Haftenkamp, 10; Balbach, 7; Tuttle, 5; Tower, 4; Schoen, 3; Baskets: Haftenkamp, 5; Balbach, 6; Tuttle, 2; Tower, 1; Schoen, 1.

MILITARY HOP.

The military hop in honor of Colonel Shubel and the officers of the Governor's Guards on Jan. 28 was voted by all present, one of the most enjoyable dances ever given at the College.

The grand march commenced about eight o'clock, led by Colonel Shubel and Miss Elizabeth Dodds, the officers of the guard and the executive committee. After a few simple figures the programs were issued and dancing commenced.

Tuttle and Shubel were about seventy-five couples present, sufficient to well fill the armory and the added blue of the Guard uniform gave quite a brilliant appearance. The music furnished by Mr. Prost was especially appreciated as shown by more vigorous encores than at any previous dance this year. The orchestra responded good naturedly and was kept playing almost continuously during the last hour.

Finally, only too soon, eleven o'clock came round and a most happy company started their several ways.

LECTURES OF THE WEEK.

On Wednesday afternoon President Snyder addressed the Special Students, his remarks being explanatory of the College, its aim, its purpose and its future possibilities. The talk was entirely informal and there had been no time for preparation on the part of the audience as it showed that it was appreciated. President Snyder related some details of history which are more or less familiar to those who have an interest in the College, but several historical facts were brought out which in general are not known and which could not be effectively told here. The talk was of much value in helping to obtain a comprehensive view of all sides of life at M. A. C.

CARE OF THE ORCHARD.

Prof. Taft addressed the special students on the subject, "Care of the Orchard." He spoke first of the soils suitable for the orchard. In general the ground should be well drained and natural drainage is to be preferred to artificial. Natural drainage must necessarily give a slightly rolling ground and this is of advantage in preventing fruit rot. When there is a difference of ten degrees between the temperature of a hilltop and that of the adjacent low land, the fruit rot is more frequent.

Different sorts of orchard trees require for ideal conditions different sorts of soil. For the pear- and apple trees, heavy clay loam is good, and the plum requires nearly the same kind of soil. But if there is any difference the plum-tree should be on a soil better drained than that suitable for the pear trees. The apple tree requires a light clay or sandy loam; and the peach and cherry lighter loam.

Prof. Taft gave demonstrations of pruning, and advised each one contemplating the setting out of trees to know that the trees be purchased of reliable nurserymen. The small fruits were also discussed, though briefly. For spraying Prof. Taft recommended Bordeaux mixture and Paris green as the best for general purposes.

HORTICULTURAL CLUB.

A very interesting program was given by the meeting of the Horticultural Club last Wednesday evening. Mr. Sway gave a talk on "The Importance of Forestry." He outlined the work of the division and gave some very instructive information.

Prof. Gunson spoke on "Michigan's rank in Horticulture." Some of the brought ought were revelations to many of those present, he said: "Michigan ranks first in number of peach trees, 3d in plum and pear trees, 5th in apples and 6th in apples; first in acreage of celery, 2d in potatoes, 3d in onions, 4th in vegetables and 3d in strawberries. Michigan holds 5th place in orchard products." One very surprising thing is that Mr. Gunson mentioned that Oakland county had the largest acreage of potatoes of any county in the state.

At the next meeting of the Club, Feb. 11, Mr. Perry will give an illustrated talk on "Pruning Dwarf Pears." Mr. Perry has had considerable experience with dwarf pears and his talk will be of benefit to anyone interested in Horticulture.

Pitcher Cookley of Holy Cross has been debarred because of professionalism.

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 8.

LANSING, MICHIGAN, TUESDAY, FEB. 3, 1903.

No. 20

ALUMNI.

'89. About 1883, C. L. Bemis, '74, then superintendent of schools in Grand Ledge, and regularly attending dances at the College and in 1883, began to attend the College with several young men in tow for the freshman class. He quietly made a remark about this one and another met that one, and when he came to W. L. Rosman, he observed, 'He is a quiet, studious young man who knows what he comes to college for. The faculty need have no anxiety that he will ever get into any scrapes, or make any trouble anywhere.' He was as good as his word and one of the Illini, since which time he has been State analyst for the food commission, chemist for two other manufacturers, and last for two factories at Harbor Beach, Mich. To use up a waste product (gluten) is making wheat starch, which he uses with flour to make macaroni. This factory was started four years ago and is larger than the previous one. The company now operates two factories with a combined capacity of 100 tons of gluten per day. The gluten was manufactured after a process invented by W. L. Rosman. The product is used as a thickening agent for a thin cooking starch. When twelve ounces of this starch is cooked in water, the resulting of the solution is but little heavier than water, consequently in using it in the laundry it requires no rubbing in, but penetrates the fibre of the goods readily, thus saving a good deal of work in starching and produces a more pliable finish. The gluten is separated from the starch in large washing tanks, and the mass of gluten is heated so as to bring it into a soluble condition and dried. This is sold as soluble vegetable albumen, to the textile industry and is used in place of egg and blood albumen.

'93-'96, Elon W. Pond, the son of A. L. Pond, '93-'96, died January 21st, Coldwater, Michigan.

'99. Arthur Nunnally, manager of the creamery in Portland, Ore., was recently married to Miss Florence Klots of that place.

'00. Gary S. Covell, who has recently returned from Y. M. C. A. work spent Sunday at the College. He has given up his work at West Point.

'02. Mr. Hurt Wernoth, who has been at M. A. C. for the past week, will work for the degree of M. S. in Horticulture.

'02. L. D. Rudolph, who is working for the degree of M. S. in Horticulture, will possibly go to England before long on a business trip.

'02. O. H. Skinner, of Alma, spent Sunday at the College.

'02. William Krieger was at M. A. C. last week, taking a short vacation from his green house work at Grand Ledge.
THE M. A. C. RECORD.

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TUESDAY, Feb. 3, 1903.

FOR some the engineering students of the College have been discussing plans whereby an engineering department could be maintained at M. A. C. The engineering department of the large Universities all support such departments and in some cases the number of students is large enough to warrant the establishment of such departments. The College has been called in to plan a four-years course for an engineering department.

Mr. A. M. Donsereaux.

SECONDaries for February.

One-day institutes will be held in Allegan county February 2d to 9th, Oakland county, 11th to 12th, Van Buren county, 10th to 13th, Oceana county, 10th to 14th, Washtenaw county, 10th to 13th, Kalamazoo county, 17th to 19th, Wexford county, 17th to 20th.

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FARMERS’ INSTITUTES FOR FEBRUARY.

COUNTY.

PLACE.

DATE.

Leonia...

Hudson...

February 9-10

St. Joseph...

Centerville...

February 9-10

Baron...

Chicago...

February 10-11

Washtenaw...

January 22-23

Oakland...

February 12-13

Ionia...

Kalamazoo...

February 13-14

Hillside...

Canfield...

February 13-14

DeWitt...

January 22-23

Branch...

Chemnitz...

February 12-13

Livingston...

DeWitt...

February 12-13

Paw Paw...

February 13-14

Van Buren...

February 12-13

Oakland...

January 19-20

Calhoun...

Albion...

February 18-19

Berrien...

Brown City...

February 18-19

Eau Claire...

February 18-19

Ingleside...

February 19-20

Allegan...

Wayland...

February 19-21

THE M. A. C. RECORD.

Second half year.

Physics, Miller; meteorology, lectures; rhetoric, Whately, Day's Praxis; animal physiology, Dalton.

Smith Class—First half year.

Zoology, Carpenter; practical agriculture, lectures; mental philosophy, Wayland; astronomy, Snell's Optics; French, Otto, Divia.

This reminiscence has been indulged in to show the present generation that great changes have taken place. I have enumerated more than enough new topics to occupy the entire time of a student in an agricultural course for four years.

We still have most that was in the old course, and much of it can not be omitted today. We can curtail and add here a little and there a little; doing our very best, it is impossible in all this rich field of study in agriculture to make one department; but if a man is energetic, he need not be successful in getting them all into one course. This is a day of specialization in every department of human effort, as can be seen by reading the discussions that are to be found in reports of college faculties, in educational and scientific journals of the day. We know it is costly, but elective studies must become more and more numerous as the years pass on, and most, if not all colleges will continue to offer elective courses consisting of groups of topics.

Any one who has long been a teacher in a live Agricultural College knows that every four to eight years there is sure to be a general breaking up and rearrangement of the studies with additions to certain lines. Every new professor that is added to or substituted in a faculty soon discovers some feature of the course that he would like changed.

No two men can see things alike. Each has his preferences, depending on his training and temperament. New discoveries, new methods, new waves of the students make the old course inadmissible.

There can be much that is stable or permanent.

Below are enumerated some of the leading industries that a graduate of an Agricultural College is naturally supposed to make his life work.

The growing of fat cattle and swine, the growing of sheep, horses and poultry, dairying, bee keeping, and in connection with these the growing of cereals, pastures and meadows. He may engage in growing orchard fruits, small fruits, vegetables in the open air. He may become a horticulturist, growing ornamental, roses and flower cultures. He may give much attention to growing young trees and plants for market.

He may give his attention to some one or more special crops like sugar beets, potatoes, chestnuts, hops, or celery. He may engage in the work of an experiment station, or perhaps diverge in the line of veterinary, forestry, or landscape art, or help to edit an agricultural or horticultural journal.

The numerous short special courses now so common in many colleges.
Prof. Reynolds is ill with tonsillitis.

Mr. C. Walter Knight, with '04, is now a clerk in the Mount Clemens postoffice.

A gold locket has been found in the physical laboratory. Owner can have same by calling at the laboratory.

The Alpha Zeta Fraternity has elected the following officers: Chancellor, F. D. Stephens; Censor, E. S. Good; Scribe, G. C. Sevey; Historian, S. B. Hartmann.

President Snyder and Dr. Edwards attended the first annual banquet of the Detroit M. A. C. Association Saturday evening. A more extended notice will appear next week.

Some of the students of the mechanical department are testing a rotary engine. This engine, which can develop three horse power, could be conveniently tucked under the arm and walked off with.

Last week Senator Goodall, of Wayne county, introduced a bill in the State Senate, providing for a memorial to the late Dr. Kelzke to be erected on the campus. It is reported that he considered $10,000 too large a sum to be expended.

Messrs. E. Balbach, S. E. Johnson, and H. G. Walker became members of Tau Beta Pi Thursday evening. On Thursday afternoon, by way of initiation, they paraded the walks in the rain doing "stunts" for the delectation of passers-by and seekers-out-of-windows.

NORTON'S HARDWARE

Have you a MARQUART STEEL RANGE? If not, you certainly have not got the best. Your neighbor has one, ask her about the quality. We have sold a large amount of them and all give satisfaction.

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All goods delivered to your room free.

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At One-third to One-half off.

4 to 5 off on all Cloaks and Suits. 3 to 4 off on all Fur Scarfs, Muffs, and Near Seal Jackets during this week.

Patent Kid Shoes

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Prices $3.00 and $3.50 a pair.

C. D. WOODBURY, Hollister Block.
Ruppert, in Reed Village, near Reed City, while plowing in September, 1895. No one claims to have seen it fall, and its condition shows that it had lain on or near the surface for some years.

As is well known, a meteorite is simply a meteor or "shooting star," which has failed to burn up in passing through our atmosphere, and so has dropped to the earth. Thousands, perhaps millions, must enter the atmosphere of the earth every year, but the very great majority are consumed by friction and friction of the air and are completely consumed before reaching the earth's surface. It is, therefore, quite usual to find one, although several hundreds, perhaps a thousand or more, have been gathered into the museums of the world, and have been catalogued, many of them analysed, and the results published.

Only two other Michigan meteorites have been described thus far: One an iron meteorite found at Allegan in July, 1899, and was picked up while still hot. The Reed City meteorite will be exhibited this week at the meeting of the Natural History Society, and this morning, in the Botanical Department, it was exhibited at the meeting of the American Meteorite Association.

CONCERNING A COURSE OF STUDY FOR AGRICULTURAL STUDENTS.

The states require special methods of teaching. I am a teacher of economic botany, but the particular sections of it that I teach should be a class in an agricultural college would depend largely on the kind of work the members of the class are preparing for.

Every one of the agricultural students should study at least one topic in botany as well as the gross anatomy of plants. This would be mainly to give training in learning to observe little things. The student had to decide he was entirely to raising poultry, I should recommend him to take more than sixty lessons in botany, the work of twelve to eighteen weeks. If the student were to make better his specialty in addition to the above, I should advise him to spend one year daily in systematic botany, learning to identify and recognize all sorts of seeds and plants.

The gross anatomy of plants and the genetics both both be important to the forest and the orchardist, and to the work above I would add a few more lessons in the subject of parasitic fungi and plant pathology in general, and a complete study of the elements of plant physiology. By this time he should have received a training that would enable him to go on without a teacher. Much of this course for the agricultural student would consist in laboratory work with reading the best books and bulletins and very little in lectures. Were parasitic fungi and plant pathology to be grown in a variety of crops, I should ask him to take less of what I term systematic botany and less of pathology and put some twenty weeks on the study of seeds and forage crops.

A NEW METEORITE.

In December, 1895, while at Reed City, Michigan, Professor Barrows saw a large iron disc, which had been played in a hotel window and was told that there had been a dispute as to whether it was iron or nickel. It was found that the iron was purchased by the museum. Other attempts were equally unsuccessful. The first part of the above characterized the Reed City meteorite: It is exhibited at the meeting of the Natural History Society tomorrow (Wednesday) night at 6:30, when some additional facts about this and other celestial visitors will be presented.

HAHN-PARKE QUINQUETTE.

The Hahn-Parke Quintette will consist in laboratory work and put some twenty weeks in the study of parasitic fungi and plant pathology in general, and a complete study of the elements of plant physiology. By this time he should have received a training that would enable him to go on without a teacher. Much of this course for the agricultural student would consist in laboratory work with reading the best books and bulletins and very little in lectures. Were parasitic fungi and plant pathology to be grown in a variety of crops, I should ask him to take less of what I term systematic botany and less of pathology and put some twenty weeks on the study of seeds and forage crops.

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