A large crowd of enthusiastic roosters went to Albion, Friday, on the special Lake Shore train and saw M. A. C. win once more the annual M. I. A. A. track meet. The meet was probably the most closely contested and most enthusiastic held for years. The tennis matches were played Thursday and Friday and resulted as follows:

Men's Singles, Chase, Hillsdale, won from Horton, M. A. C., 6-0, 6-1, Chase Hillsdale, won from Gray, Olivet, 6-0, 6-1, Finals, Chase Hillsdale, won from White, Albion, 6-2, 6-3, giving Hillsdale first and Albion second.

Men's doubles, White and Hunt Albion won from Hewitt and Day, Kalamazoo 6-0, 6-0, M. A. C. won from Oliver default. Chase and Bailey Hillsdale won from White and Hunt Albion, 6-0, 6-0, 7-5; Finals, Chase and Bailey, Hillsdale won from Horton and Willett, M. A. C., 6-0, 6-3, 6-3, Hillsdale first, M. A. C. second.

Ladies' Singles were entered by Hillsdale, Kalamazoo and Albion, Albion winning both matches in love sets.

Ladies' Doubles were entered by Hillsdale and Albion, Albion won easily, Total points Hillsdale, 16, Albion 13, M. A. C. 5.

In these matches the winner has first place and the winner up second. The men defeated by the winner previous to the final match have no chance for second which was our case.

Little interest was shown in the ladies' tennis all knew before the tournament that Miss Perine of Albion would have everything her own way. Neither Oliver nor M. A. C. sent any ladies. If we had sent a team, we would have taken a

Albion would have everything her tournament that Miss Perine of case in singles.

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6-0, 6-1, Finals, Chase Hillsdale

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matches were played Thursday and

Friday and resulted as follows:

Men's Singles, Chase, Hillsdale, won from Horton, M. A. C., 9-7, 7-5, White, Albion, won from Hewitt Kalamazoo 6-0, 6-1, Chase Hillsdale, won from Gray, Olivet, 6-0, 6-1, Finals, Chase Hillsdale, won from White, Albion, 6-2, 6-3, giving Hillsdale first and Albion second.

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FRIDAY'S EVENTS

Five-mile bicycle race—Rae, M. A. C., first; Bentley, Olivet, second; Mason, M. A. C., third; time, 14:51.5.

15-mile dash—Depew, Hillsdale, first; Kastner, M. A. C., second; Morgan, Olivet, third; time, 10:25.9 seconds.

Hammer throw—Maddock, Albion, first; Childs, M. A. C., second; Metro, M. A. C., third; distance, 123 feet 7 inches. Distance

Mile run—Ward, Hillsdale, first; Holdsworth, M. A. C., second; Schoef, Kalamazoo, third; time, 4:38.

Standing broad jump—Carpenter, M. A. C., first; Carpenter, Albion, second; Whitemire, Ypsilanti, third; distance, 10 feet 9 inches.

Standing broad jump—Albion, first; Carpenter, M. A. C., second; Fuller, Alma, third; distance, 56 feet 10 inches.

440-yard run—Depew, Hillsdale, first; Kastner, M. A. C., second; Koster, Kalamazoo, third; time, 52.4-5 seconds.

120-yard hurdle—Church, Albion, first; Dunford, M. A. C., second; time, 15.6-5 seconds.

Discus throw—Maddock, Albion, first; Priest, Albion, second; Steckle, Olivet, third; distance, 109 feet 7 inches.

Half-mile run—Holds worth, M. A. C., first; Schoe, M. A. C., second; Schenck, Alma, third; time, 2:10:6.

Running high jump—Bell, Hillsdale, first; Hunt, Albion, second; height, 5 feet 6 inches.

220-yard run—Depew, Hillsdale, first; Morgan, Olivet, second; Kastner, M. A. C., third; time, 23.3-5 seconds.

Running broad jump—Depew, Hillsdale, first; Moon, M. A. C., second; Childs, M. A. C., third; distance, 20.9-1 inches.

In the evening, on account of rain, the indoor sports were held at the opera house: Featherweight boxing—Bryant, M. A. C., first; Les­

cooler, Albion, second; Light-

weight—Sanzburn, M. A. C., first; Les-

cooler, Albion, second; Middle-

weight—Bryant, M. A. C., first; Steckle, Olivet, second; Heavy-

weight—Maddock, Albion, first; Bird, M. A. C., second; Indian Club swinging—Phillips, Alma, first; Pinch, Olivet, second.

SATURDAY'S EVENTS.

Horizontal bar—First, A. O. Ab­

bott, M. A. C; second, Glass, Alma; third, R. C. Brown, M. A. C.

Quarter-mile bicycle—First, Bent­

ley, Olivet; second, Bartell, Albion; third, Morr, Kalamazoo; time, 39:1-5.

Mile bicycle—First, Bartell, Al­

bion; second, Howard, Alma; third, Rae, M. A. C; time, 3:06.

Pole vault—First, Ward, Hills­

dale; second, Miller, M. A. C.; third, Blanchard, M. A. C; height, 10 feet 1-4 inch.

Two-mile run—First, Ward, Hills­

dale; second, Dugan, Albion, third; Phillips, M. A. C; time, 10:53.

220-yard hurdles—First, Church, Albion; second, Depew, Hillsdale; third, McKenna, M. A. C; time, 27:2-5.


Running hop, step and jump—First, Depew, Hillsdale; second, Fuller, Alma, third, Moon, M. A. C; Distance, 43 feet 9-12 in.

Three-mile race—First, Depew, M. A. C; second, Depew, Albion, third, R. C. Brown, M. A. C.

NOTICES.

Will chorus members who have copies of "Pinafore" kindly return them at once to Mrs. Marshall or Mr. Geib.

Officers will be elected at the next meeting of the Debating Club if there are members enough present to hold the offices.

F. N. SMITH.

The relay was the prettiest event of the whole meet, all of M. A. C.'s runners holding their opponents even on every quarter.

Kastner was the only man whom Depew, according to his own state­

ment, feared to compete with.

Rae, in the one mile bicycle, was fouled by another runner, but man­

aged to win third.

In the last lap of the relay the bleachers gave way, breaking the leg of a spectator.

The records broken were the 120-

yard hurdle, shot put, hammer throw, standing broad jump, pole vault, one-

mile run.

Blanchard and Miller both vaulted near the 10-foot mark.

Albion won the base ball championship, defeating Hillsdale 5 to 4, and Kalamazoo 8 to 1.
correction, let us carry our christian charac-
ters with us where we go, and when we return bring fresh zeal for the association work.

ALUMNI

(Continued from page 6.)

With '93, R. H. Kedzie is head bookkeeper for the Eagle Drug and Mercurial Company of Lordsburg. His family, consisting of his wife and one little girl, are at present in Michigan.

'94-'95-'96. H. A. Sprague is one of the owners of the Conumia (Mich.) Lighting Plant.

'97. The marriage of Miss Frances Alice Henry and Mr. Earl H. Selvig, '97, at Elizabeth, N. J., on June 30, has been announced.

'98. T. L. Hankinson, besides his work as instructor in zoology in Cornell University, is studying for the degree of Ph.D.

'99. W. R. Goodwin, who has not changed his home from Penria, Ill., to Union Pier, Mich., to facilitate mail delivery, however, has his papers directed to Union Pier, Mich. "At present," he says, "I am apart of the engineering department of the C. & N.W. Ry., on the construction of a new line 68 miles long, connecting Evan and Marshall in southwest Minnesota. This is the third line, the construction of which I have taken part in. I am here in the capacity of general foreman of water supply. My particular work is the looking after and putting in of all those things connected with the water supply, & c., wells, pumps, windmills, steam and gasoline pumping engines, supply tanks, piping, steam heating plants, etc. Many other things in the mechanical line are turned over to me; however, and I am just preparing to build an engine house at Marshall."

'99. S. Ford Edwards, in addition to his work as instructor in bacteriology is studying for his M.S. degree.

'00. Albert Strong is now located in Kenosha, Wis.

'01. Mrs. May Kyes Allen is now a resident of Lordsburg, N. M.

Your Attention Ladies!

We are catering to the wants of those who are looking for high grade goods at their intrinsic value. We are headquarters for...
THE M. A. C. RECORD.

THE RELATION OF INSECTS TO THE POLLINATION OF PEARS AND APPLES.

Thesis by A. G. Craig and D. S. Bullock. The work was being done in the spring of 1901 and 1902. Following are a few extracts.

It has long been known that many varieties of pears and apples are self sterile while many other varieties do much better when cross fertilized. The work being done in 1901 and 1902 was to determine the value of insect pollination in the two fruits. The work was carried on in the following localities:

3. Ohio State University—Columbus.
4. New York City.

The great work of pollination, then, falls to the insects and it was with these facts in mind that this work was taken up.

In carrying on this thesis the following divisions of the work have been considered and kept in mind throughout.

1. Number and names of insects found on pear and apple trees during the period of blooming.
2. Do the same insects work on the two fruits?
3. What proportion of the insects visit the flowers systematically.
4. The effect of weather upon the different insects with reference to their work, etc.

Four of the most abundant families of insects that are found on pears and apples were studied in detail. These are the Hymenoptera, Coleoptera, Hemiptera, and Diptera. The Hymenoptera is the group of insects best known as bees, wasps, and ants. The Coleoptera or the order of beetles, is found abundantly on pears and apples. The Hemiptera, or the true bugs, are common on both. The Diptera or the flies are seen on both fruits but not in as great numbers.

In 1901 of the insects collected on pears 14 per cent. belong to the Hemiptera, 29 per cent. to the Coleoptera, 40 per cent. to the Hymenoptera, and 17 per cent. to the Diptera.

In 1902, 25 per cent. belong to the Coleoptera, 33 per cent. to the Diptera, 14 per cent. to the Coleoptera and 34 per cent. to the Hymenoptera.

In 1901 of the insects collected on apples, 5 per cent. belong to the Hemiptera, 27 per cent. to the Diptera, 5 per cent. to the Coleoptera and 61 per cent. to the Hymenoptera.

In 1903, 17 per cent. belong to the Coleoptera, 15 per cent. to the Diptera, 4 per cent. to the Coleoptera and 76 per cent. to the Hymenoptera.

CONCLUSIONS.

The Hymenoptera are the most important insects in effecting cross-pollination of pears and apples. The Hemiptera, Diptera and Coleoptera are found quite commonly on the two fruits but their work is insufficient compared with that done by the Hymenoptera.

The Apidae and Andrenidae are the only two families of Hymenoptera that visit flowers and carry pollen systematically and hence, the only ones of practical importance in this work.

In general about the same insects work on the two fruits.

The Apidae work more freely on apples than on pears. The Diptera are found more abundantly on pears than on apples. Insects are very sensitive to changes of temperature and rain.

OBSERVATIONS.

Andrenidae were more abundant in proportion to the Apidae in 1901 than in 1902.

Andrenidae were more abundant than Apidae on the pears both years.

Bombyx were much more abundant in 1900 than in 1901.

We believe the Andrenidae are much more abundant than is commonly supposed.

From the number of insects observed we would say that in this locality, there are enough insects to pollinate a sufficient number of the flowers to insure a crop.

DATE OF ARRIVAL OF BIRDS AT M. A. C., SPRING MIGRATION, 1902.

American crow, February 25; American robin, March 3; Bluebird, March 8; Song sparrow, March 10; Cowbird, March 10; Crow blackbird, March 10; Red-tailed hawk, March 11; Tawhee, March 11; Prairie horned lark, March 11; Meadow lark, March 11; Killdeer, March 13; Mourning dove, March 15; Red-winged blackbird, March 15; Vesper, March 23.

STUDENT JUDGING CONTEST.

Senior agricultural students specializing in animal husbandry, competed this week for the money prizes offered by Mr. W. A. Rodland, of Grass Lake, Mich., and New York City. The competition followed:

1. What proportion of the insects covered five leading classes of live stock, viz., horses, beef cattle, dairy cattle, sheep and swine. The sheep, together with the beef and dairy cattle used, were selected from the College flocks and herds. The swine were furnished by Mr. W. O. Wilson, Okemos, Mich., while the draft horses used in the work were graciously placed at our disposal by the management of the Ringling Bros. circus. The keenest interest was manifested throughout the contest by the students engaged therein. These contests furnish a splendid incentive for earnest work. The result of the competition was:

Coveted first place at the Sheep judging contest was won by Mrs. W. L. Buddhist, Katter, Caine, 3rd, W. J. Geib; 2nd, L. F. Bird; 2nd, T. T. Thompson.

Coveted first place at the swine judging contest was won by Mrs. W. L. Buddhist, Katter, Caine, 3rd, W. J. Geib; 2nd, L. F. Bird; 2nd, T. T. Thompson.

Coveted first place at the horse judging contest was won by Mrs. W. L. Buddhist, Katter, Caine, 3rd, W. J. Geib; 2nd, L. F. Bird; 2nd, T. T. Thompson.

Coveted first place at the dairy judging contest was won by Mrs. W. L. Buddhist, Katter, Caine, 3rd, W. J. Geib; 2nd, L. F. Bird; 2nd, T. T. Thompson.

Coveted first place at the beef judging contest was won by Mrs. W. L. Buddhist, Katter, Caine, 3rd, W. J. Geib; 2nd, L. F. Bird; 2nd, T. T. Thompson.

A LETTER THAT SPEAKS FOR ITSELF.

The following letters but recently received may prove of interest to students, faculty and their friends.

FORMER, ILL., June 4.

Dear L. J. Snyder, President of the College, Michigan, Dear Mr. Snyder:—I have a vacancy for a man to teach botany and horticulture in a western college. I think that salary will be $1,500 and possibly more. If you happen to know a good man I shall be glad to have his name and address.

Yours truly,

(Office of the Albert Teachers' Agency)

AGRICULTURAL SCHOOL.

A graduate school of agriculture will be held this year at Columbus, Ohio. It will be under the auspices of the Ohio State University and with the co-operation of the United States Department of Agriculture and the Association of American Agricultural Colleges and Experiment Stations. The purpose of this school is to give instruction in agriculture and horticulture in a western college. The Independence of Women.

From the number of insects observed we would say that in this locality, there are enough insects to pollinate a sufficient number of the flowers to insure a crop.

CLASS GAMES.

The following is the record of the games played:

Sop hornes vs. freshmen, 8 to 3; sophomores vs. juniors, 14 to 8; seniors vs. sophomores, 14 to 8; seniors vs. juniors, 7 to 15.

The prep., forfeited to juniors by not playing at least one game. It leaves the sophomores and juniors tied for first place, each team having won two and lost one game. The championship game will be played off Saturday afternoon.

COMMENCEMENT PROGRAMME.


Wednesday, 8 p.m. Society Reunion.

Thursday, 10 a.m. Meeting of State Board of Agriculture. Class Day to be held at Grand Ledge, 3 p.m. President's reception to students, faculty and their friends.

Friday, 10 a.m. Commencement Exercises in A. R. M. Address: D. S. Bullock, representing the Agricultural Course, subject, "Specialization in Agriculture.


Address by President William O. Thompson.

Director M. A. C. Columbus, Ohio.

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Yours truly,

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Address by President William O. Thompson.
and other officers of the U. S. Department of Agriculture. Seventy students from twenty-eight states are enrolled at this time including a considerable number of persons engaged in work of instruction and investigation in our agricultural colleges and experiment stations.

From the character of the faculty and students it is evident that this school will be an important center for the discussion of problems in agricultural science, and education. Dr. A. C. True, director of the Agricultural Experiment Station at Washington, D. C., is the dean, and Prof. Thomas F. Hunt, Professor of Agriculture in the Ohio State University, is the registrar. Prof. Clinton D. Smith, of this college, gives a course of lectures on the "Dairy Cow as a Milk Producer." This school opens on July 7 and continues for four weeks.

"WAITING FOR SOMETHING TO TURN UP"

By Dr. R. C. KEDZIE

Wilkins Micawber was never a student at the Agricultural College. Among the students who have been at the College his name does not appear. Of his large family of sons not one ever applied for admission here. This is not wonderful. Among the large number of regular courses and special courses placed before the students there has never appeared a special course of study called "Waiting for Something to turn up." No provision or laboratory for such a special course has been made and no instructor has charge of such a special course. For all the useful and helpful courses of preparation for life's work we have courses general and special. We have ample provision and appliances, but for the do-nothing and helpless waiting class we have no laboratory or instructor. To do and Learn by doing is the key-stone of our Educational Arch. The Micawber family are not at home in M. A. C.

While Prof. Thomas F. Hunt left the presidency of Michigan Agricultural College to accept the position of Assistant Secretary of Agriculture and thus to fill the need of well-trained young men in science with practical skill to apply that science to the vital questions involved in the development of the agriculture of this great nation, combined with willingness and ability to apply science to life. He found occasion to make numerous calls for students from the Agricultural College of Michigan. One day he went to Hon. Jere. D. Rusk and said: "Mr. Secretary Rusk I want three more scientific men to fill important positions in the Department of Agriculture. They must all come from the Michigan Agricultural College." "Why," said Secretary Rusk. "You have 13 now from the Michigan College—are there any more than from any other state—and here you ask for three more!" "I know," said Prof. Willets, but I know these boys, and I know the drill they have had in class-room and laboratory. I know they can do our work better than the men trained elsewhere. We must have them because they are the best of their class. I got this information from horse and the addition to this class of workers have increased till now more than forty active scientific workers in the Department of Agriculture are graduates of M. A. C.

Sometimes a student thinks that to get a good start in life it is better to start out from some university, rather than this college, and after studying here a few months goes to the university to round out the scolding of the university diploma. Applying for a scientific position this A. B. is surprised to be told "If you had B. S. from the Agricultural College we would give you a place at once, but now you will have to pass an examination as to your qualifications for the position."

In various walks in life we find a singular capacity of our students to succeed. Two of our graduates went to a theological seminary and began the study of Hebrew. I was surprised to hear the Professor of Hebrew language say that they were among his best students. "Of course they had not been drilled in the study of languages, but somehow these Agricultural College students had a singular knack of taking things by the right handle."

In traveling over the country and meeting a great number of business men I find the graduates of Agricultural College, in whatever calling engaged, always standing in the front rank. There is not a descendant of the Micawber family to be found in their list. In all the West their name is legion and their position honorable.

Yesterday I sat down for a lunch in a Lansing restaurant and one of our graduates sat down beside me "to have a lunch and chat with the old Doctor." Well, Robert, where are you, and what are you doing?" "Oh, my farm, and making a success of it. I tell you, Doctor, I just make things hum at home!" "Make things hum at home! That music suits my ear, and it is the M. A. C. boy that knows how to play it."

BALL-LIGHTNING IN GALESBURG

In the Detroit Free Press of May 8, is an account of that rare phenomenon, Ball-Lightning, in Galesburg on 6th of May.

"During the electric storm of Tuesday evening, Mr. Milo Williamson was in his sitting room with his wife and five children, when suddenly they were startled by a terrific report from the clouds and the simultaneous entrance of a great ball of fire through the open door. The stranger visitor halted in the center of the room, where it remained glowing and glowing like a messenger from hades. "Animated by fear for his family Mr. Williamson sprang forward and seizing the mass in his arms, rushed to the wide stream that flows near his home where he threw it into the river. Yet it struck the water there was an explosion that shook the very earth and covered Mr. Williamson and wife, leaving him stunned and dazed, although able after a few moments to reach the house, where he soon recovered."

"No other ill effects resulted although from ball-lightning." But it is of rare occurrence. It makes one shudder when he thinks of the possible results of the explosion of this ball-lightning. Mr. Williamson's house or in his arms as he carried it to throw it into the river. The promptness and courage of Mr. Milo Williamson on this occasion unquestionably saved himself and family from instant death.

In times of such peril it is said that presence of mind is of great value, but I think that absence of body is better.

Lightning rods afford no protection from ball-lightning.

WHY ATTEND COLLEGE?

The following is written for perusal by any bright girl or boy—young lady or young gentleman—who has been well trained in and out of school to the present time. The boy isn't a loafer or cigarette smoker, nor the girl idle and frivolous permitting her mother to perform all the drudgery of the household. I hope you have aspirations to be up with the times in this progressive age in all that pertains to education and things that are likely to go with it. It isn't to be expected that your parents had as good opportunities as you can have in these days, but many of them had their position honored. Yesterday I sat down for a lunch in a Lansing restaurant and one of our graduates sat down beside me "to have a lunch and chat with the old Doctor." Well, Robert, where are you, and what are you doing?" "Oh, my farm, and making a success of it. I tell you, Doctor, I just make things hum at home!" "Make things hum at home! That music suits my ear, and it is the M. A. C. boy that knows how to play it."
of expert teachers. I am speaking now especially to those who have good brains, good health, and a good perseverance, as they are destined to do most of the best work in their general calling. It is in a great contest without a long training; no blacksmith becomes expert without much practice; no one can purchase or select and prepare food for a family and do it economically, and have knowledge of the nutrient values of each article of food to form a balanced ration; no man can become a designer in the making of machines without a long preparation for such work; no person can command a high salary without a thorough department unless he has had a thorough training with practice in the same.

Even those of moderate ability can be much improved by joining a class of enthusiastic students in a college. The testimony of all graduates of Michigan Agricultural College is well nigh unanimous that the college they took was a most profitable investment of time and money. Their享受ments and efficiency were much broadened and deepened.

A person with mind and hand well trained lives much more in twelve months than the person not trained.

Let not the reader be misled because a few persons of his acquaintance who graduated at a college have since accomplished little. There are exceptions to all rules.

Let nothing stand in the way of securing a first-rate education,—and the best results from education in the physical and natural sciences, engineering; for women, domestic science and art, where much thorough practice is secured as well as instruction in the class room.

The distinctive features of the women's department are, however, its courses in home economics. The College aims, primarily, to train women in the practical affairs of the home, her natural place, and to prepare her to spend economically and with judgment and taste, the money brought into the home. In addition, it gives her training which shall make her capable of self-support.

For, we must face all the possibilities and remember that the lot of a man is that of wage-earner. She must enter into the service competition of the world for bread.

There is opportunity now for the Michigan Agricultural College to make of its Women's Department a great technical school for girls. Students have come this year from California and Pennsylvania, from the District of Columbia and New York. Graduates and farmer students are at work throughout this wide territory, and the demand for trained workers is greater than we can supply. The Department of Agriculture at Washington has accepted

THE M. A. C. RECORD.

WOMEN'S BUILDING

THE WOMEN'S DEPARTMENT.

The Women's Department has now finished its sixth year and the results of these years have been more than justified the claims made by its advocates and friends. The somewhat new feature of the course is the practical work in sewing, woodwork, cooking and allied subjects, having met with deserved popularity. At the same time these features have been made to serve an educational office, developing mental powers while they train the hand and eye, for it should be remembered that intellectual development must go hand in hand with the chief part of educational activity, now, as it has ever been in the past year these results have been most gratifying.

But College life for girls means more than books and study and laboratories. The haggard, hollow-eyed Senior, worn out by work, is a spectacle belonging to the last generation of College women. We are more apt to find the graduate flagged out by an endless round of class parties, society hops, receptions, and teas than by an undue amount of mental strain. College girls have found that some play is a necessity and permit themselves a little wholesome fun along with their work. The social functions of college life are of especial value to women when not indulged to excess, and the spirit of comradeship which grows up in community life is helpful, sympathetic, cordial, remains through years a constant blessing. All these things have their bearing on the formation of character and no woman's school can compare with a college for that aim. Self-control, self-dependence, courtesy, courage, moderation, these are the principles which must be developed in order that life may be rounded out to completeness.

MAUDE GILCHRIST.

TECHNICAL AND SCIENTIFIC AGRICULTURE.

Not many years ago it was thought almost by most people that a young man should go to school to learn to farm, and that so awful a thing as a scientific principle could in any way be related to practical farming was
almost beyond the comprehension. Such a science is prevalent.

There is a difference between the so called “book farmer” and the man who has been trained in the science or sciences underlying his work and who is able to make a practical application of the same in every day affairs. The one is of the visionary type, the other is a philosopher leading the great forces of nature to his own profit.

Everywhere in these days we hear as a sort of watchword—"Advance," and everywhere we are hearing or reading such statements as: "a time of great advancement," "a time of progress," etc., and we do not ask for proof—we see it all about us. In all cases the advancement is to be traced to the activity of the trained mind making application of scientific principles.

Carnegie amassed his fortune by putting a chemist into his great foundry. The richest paying gold mines in the world are mines which thirty years ago could not be made. People trained minds and scientific knowledge have become operative and the impossible has become more than possible. The successful construction and operation of great transportation systems have been made possible for like reasons. The great packing establishments never could have developed their immense business, especially their foreign trade, were it not for the hundreds of technically trained persons in their employ. Examples could be multiplied.

But how about agriculture? What has science and technical training done for this the greatest industry? The last fifteen years have witnessed great increase in agricultural knowledge. Wonderful discoveries have been made, and the application of scientific principles have saved to the farmers of this country millions of wealth and have made possible lines of agriculture which otherwise would have been impossible, and we are only at the beginning of things.

The most cannot be made of this knowledge till it is possessed by every farmer, and of the great army of agriculturists only a few are trained or even informed. In these days of strenuous competition, the farmer, like every other producer, must get the greatest amount of product at the least expense, and this can be done only as he can bring the laws of nature under his control, and exercise economy and judgment in the use of methods.

The farmers are failing to get the best return from live stock because of failure to properly select and take care for their stock. Thousands of farmers are growing thirty bushels of oats per acre when they should be growing fifty to sixty bushels per acre.

How many farmers realize that the plow is the most useful and, at the same time, the most dangerous of tools; that it may be made to swell or to compact his soil when he has learned the art of using it? And yet this is the case. The crude tool in the destruction of the pestiferous weed. Even this crude roller admits a high degree of art in its use.

The agriculturist should keep pace with other producers. To do this he must be a technical and scientific farmer—he must be trained for his work and he must understand the scientific laws underlying farm operations. Experience demonstrates this to be true. The times demand it.

J. A. J.

NEW BUILDINGS.

At its last meeting the State Board of Agriculture adopted plans for an engineering building and a bath house. The engineering building will be about ninety by one hundred twenty feet and three stories with basement. It will also contain rooms for the department of physics and electrical engineering. The first floor will be used for laboratories and a large room for engines and dynamos; the second floor for drafting and reception rooms, and the third floor for drawing. This floor will be given up to Prof. Baldwin and all the work in his department will be done in these rooms.

When completed this building will be, perhaps, the finest on the campus and will cost in the neighborhood of $100,000. Just as soon as the plans are completed the Secretary will advertise for bids and it is expected to get the building well under way this fall. It is understood that it will be placed between Wells Hall and the mechanical building. The bath house will cost from twelve to fourteen thousand dollars, and besides shower baths, private bath rooms and rubbing rooms, will contain a large swimming pool. It will also contain rooms for a barber shop and an office for the director of athletics. It will stand on the armory with which it will be connected by a covered passageway. This building will be rushed along and completed as soon as possible.

The bacteriological laboratory is moving along rapidly. The workmen are now at work on the second story and it will be ready for occupancy by the beginning of the fall term.

Y. M. C. A.

Thursday evening prayer meeting was led by Mr. Wm. Thompson. Subject: For Self or For Service. Our greatest reward comes from service to others. "They bear the palm and rule the heart who merely wish to serve."—Henry Abbey.

Chapel services Sunday morning were conducted by Rev. L. B. Bissell of the Franklin St. Presbyterian church, Lansing. The services were well attended and enjoyed by all. Let everybody, as far as possible, attend the Sunday morning chapel services.

The union meeting of the Y. W. and Y. M. C. A. Sunday evening was led by D. S. Boule and consisted of a Farewell Song Jubilee. The senior members of the Y. M. C. A. gave an account of those things which had had the greatest influence upon them, here at M. A. C., in developing and strengthening their Christian characters. The majority agreed in placing “Bible Study” first in importance. Associations with Christian men and women were placed next; they said that he would rather see any other two things of the college curriculum removed than the associations and morning chapel.

Harper's Weekly of last week had a likeness of the late Pres. Barrows, of Oberlin, and also a commentary on his life and work. All interested in education will sympathize with Oberlin in the loss of its president.

Res. J. L. Snyder, President.

Dear Sir:—The thanks of this Society, and mine personally are extended to you for the courtesies shown at the College June 5th and for the flowers received. The suggestions, decorations, and the students who furnished the music and the boys in their drill, helped to overcome the dampness cast by the weather and next year we hope to do better in audiences.

Sincerely yours,

Ellen B. Judson.

No. 502 Washington Ave., N.

Lansing, June 7th, 1902.

[Michigan Pioneer and Historical Society]

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EXPENSES LOW.

For Particulars Address

J. L. Snyder, President,
Agricultural College, Michigan.
Mr. Ira Van Skiver, '03, entertained his relatives over Sunday. Mr. Clark Millsbaugh, '02, entertained his mother at the College over Sunday. Mr. L. F. Bird, '03, received a visit from his mother and grandmother over Sunday. Mr. L. F. Bird, '03, received a visit from his mother and grandmother over Sunday.

The new rhododendron bed planted this spring will soon be in bloom and all lovers of the beautiful should notice it.

Some of the faculty spent Friday afternoon at Pine Lake. A party of students also spent the day there. At the Junior class meeting Thursday the following officers were elected for next year: Pres., J. G. Moore; Vice President, Miss Jessie Palmer; Sec., Glenn Sever; Treas., C. B. Rose; Auditor, C. I. Braunger; Sergeant-at-arms, Miss K. Gunn and J. M. Churchill.

Miss Lyford is receiving a visit from a sister who will stay till after commencement, when both will return to their home in Moline, Ill.

Mr. H. E. Smith and wife and Mr. Smith's sister, Mrs. B. F. Bailey of Keokuk, Iowa, have bought the Mumford cottage of ex-Sheriff Sergeant-at-arms, Miss K. Gunn and J. M. Churchill.

Miss Lyford is receiving a visit from a sister who will stay till after commencement, when both will return to their home in Moline, Ill.

Mr. H. E. Smith and wife and Mr. Smith's sister, Mrs. B. F. Bailey of Keokuk, Iowa, have bought the Mumford cottage of ex-Secretary Bird.

E. S. Good expects to spend the summer vacation at the University of Illinois with Prof. Mumford.

The class of '05 has elected the following officers for the fall term: G. A. Morley, president; Miss H. L. Toan, vice president; H. Hunt, secretary; H. F. Tuttle, treasurer; J. P. Haftenkamp, athletic director; G. S. Dunks, sergeant-at-arms.

Miss Marie Otto, with '03, who has been teaching school in Okemos the past year, gave a picnic on the campus last Friday to her pupils.

The captains of the athletic teams for next year are: baseball, W. F. Miller; basketball, J. F. Haftenkamp; football, A. B. Peters.

Thu., night evening some gentleman who had had too much of Ringling Bros.' Circus, left his buggy top in the College apple trees after meandering around for some time.

Miss Wellman gave a small party at her home Saturday in honor of the Misses Wheeler.

Dr. Waterman is getting out the program of recitations for the fall term. All students who are to be in College next year can secure a program by calling at the President's office before leaving M. A. C. for the summer vacation.
ABOUT THE CAMPUS.
T. G. Phillips, Matt Crosby and Fred Baker have all received their appointments from the U. S. de­partment of Education, and T. G. Phillips will work in Maine and Baker in Arizona.

Prof. Pettit had a serious accident last week. He fell from his horse while attempting to mount, wrench­ing his right knee in such a manner as to cast doubt on whether he can expect to be on his feet again this week.

Of twenty persons who appeared on the program of the last meeting of the State Horticultural Society held at Pontiac last Thursday, thirteen have been connected with M. A. C. as students or have had sons or daughters in attendance here.

The Colombian Literary Society have elected the following officers for next term: Pres., F. G. Gorder; Vice Pres., R. L. Black; Secy., W. P. Robison; Treas. of Records, W. S. Merrick; Treas., C. D. Sterling; Marshal, Leslie McKee.

At a special business meeting last Friday evening the Olympic Society elected the following officers for the fall quarter: President, W. W. Winfield; Vice president, D. A. Gunsey; Sec­retary, Fred C. Dunmore; treasurer, H. R. Kingsley; marshals, W. E. Treadwell and W. A. Smith; staff member, Wm. P. Wilson.

The Michigan Pioneer and His­torical Society which met in Lan­sing last week held its Tuesday afternoon meeting at the College. Several of the Faculty appeared on the program which was read and the session adjourned. At the Tuesday meeting held in the chapel numerous relics of old times belonging to the College were exhibited. Some of the articles were a spinning wheel for spinning woolen yarns, reel, grain cradle, flail, shaving horse and scythe.

The competitive drill Tuesday evening was witnessed by a large number of Michigan's pioneers, and was as especially close contest. The judges, Col. Shubel and Capt. Durst, of Lansing, awarded the gold medal to C company—Capt. Ben­nict and Capt. Dunmore. The judges, Col. Shubel and Capt. Durst, of Lansing, awarded the gold medal to C company—Capt. Ben­nict and Capt. Dunmore.

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