NUMBER
MICHIGAN STATE AGRICULTURAL COLLEGE. 

LANSING, MICHIGAN, TUESDAY, APRIL 19, 1904.

ALUMNI.

Mr. R. E. Haines led the Thursday evening prayer meeting. Subject, "How Christ Makes Us Subjects of Common Lives." Reference, Mark 14:11-16. Messrs. E. H. Adams and R. F. Bell led in the discussion of the theme. The meeting was one of helpfulness and profit to all present and was well attended.

Rev. W. P. French, of Lansing, conducted chapel exercises Sunday morning. Text, Ephesians 2:19-20. Theme, "The Christian Family Universal." All who own allegiance to Christ belong to one great family, of which God is the center, and His son the older brother. The theme was interest­ingly presented and very instructive.

The annual meeting of the Y. W. and Y. M. C. A. was held at 7 o'clock. Mr. Hurry was well and favorably known at M. A. and will be greeted with a large audience.

Notice.

Members of the King's Daugh­ters will kindly have their pound at Higgs & Hurley's by the 21st.

Notice.

Charles D. Hurry will be at M. A. C. next Saturday and Sunday and will address the union meeting of the Y. W. and Y. M. C. A. in chapel at 7 o'clock. Mr. Hurry is well and favorably known at M. A. C., and will be greeted with a large audience.

Notice.

Students are advised to write their names in each book purchased and to have a private mark on one or more pages so that in case the book is lost its identification can be established. Reports have come in recently of books being lost during the dinner hour. Mistakes occur, so do accidents. Names on the first page are easily removed. Have a mark on pages.

Debate.

The third annual debate with the Normal College of Ypsilanti will be held in the armory at 7:30 p.m. next Friday. Ypsilanti has chartered a special and 200 students will accompany the debating team. M. A. C. has the affirmative on the restrictions on the franchise in Mississippi and will be represented by Messrs. Anderson, Gardner and Johnston. The Normal debaters are Miss Mahal Miller and Messrs. Her­ald and Reinhold. The debate will be interesting and should be supported by large members. An admission fee of 25 cents will be charged in order to defray the expenses of the contest. The Normal has shown an unusual amount of interest in this debate and M. A. C. should not be behind in this respect. Do not let the result of the Michigan - M. A. C. game prevent your presence at the debate. If we win both contests we will celebrate.

Baseball.

The first scheduled game of the season was played at M. A. C. last Thursday. The day was cold and not suited to fast playing. Detroit College, however, was outclassed at every point. M. A. C. played a much better game that with Howell. The batting and base-running were especially improved. Hyde allowed so few hits that the fielding could not be judged. Chapman throws to second like a shot and Canfield and Rasmussen are always there to catch the oval and put the runner out. Before the inning was over two Detroiters had crossed the home plate which left the score 12 to 2 in favor of M. A. C.

Michigan comes here Friday to play M. A. C. Wendell, their strongest and only right hander, will undoubtedly be in the box for the visitors. M. A. C.'s line-up has not been decided definitely, but will be approximately as last Thursday. Hyde or Millar will do the twirling, depending on which man shows the best condition that day. Chapman and Canfield will do the catching. This is the most important game of the season. Extra cars will be run from Lansing and a large crowd is expected. Michigan plays all this week, beat Chicago, who were considered the strongest team in the west, last Saturday and will come to M. A. C. in excellent condition. Unless it rains too much, the game will be played in the Athletic Field. Byron, of Detroit, will umpire the game. Every student should be out as well as the faculty. Ypsilanti will send a large delegation to this game which will attend the game in the afternoon. The M. I. A. A. Board has changed the place of meeting to the new building in order to see the game. Michigan will do all in her power to obliterate the defeat of last year. M. A. C. will work just as hard to duplicate last year's victory. The battle will be a royal one. Come out to cheer and to help defeat the university!

Y. M. C. A.

The King's Daughters Circle will meet at Mrs. Guin's April 27. Leader, Mrs. Bogue. Subject: "Sarah." Pleasure brings Mrs. M. R. 6, H. B.

Use of the Library.

As is the annual custom the ad­ministrators of the general library of the University of Michigan have compiled figures showing one week's use of the library according to the departments of the users. The students of the university made up 96 per cent of those using the library, the remainder were pupils of the university school of music, the Ann Arbor high school, and citizens. The faculty use of the library is not included in the tabulation below. The figures are for the week ending March 5. It is to be noted, as indicat­ing that Saturday is not a day of rest for the students, that more work was done in the library on that day than on any other.

Prof. P. B. Woodworth, of Lewis Institute, Chicago, spent his vacation week in Judge Haney's court as an electrical expert witness for plaintiff and conducting cross-examination of experts who appeared for defendant in a suit brought by a telephone operator against the Chicago Tele­phone Company. It seems that while Miss Schultz had the receiv­ing apparatus on her head an electric shock from the wire caused the destruction of the tympanic membrane. She sued the company for $10,000 damages and Prof. Woodworth was a star witness. His cross-questioning was severe and he made out such a strong case that the jury rendered a verdict for the plaintiff of $15,000 damages. Yet editor can appreciate the position of defendant's witnesses for he has a distinct recollection of Prof. Woodworth's praises and the total collapse of many a promising respondent.

82.

The fight between Cornell and Syracuse universities for the pro­posed state agricultural college has been won by Cornell. The legislature recently passed a bill appro­priating $45,000 for the erection of new buildings for the agricultural building with large laboratories will be erected soon. Prof. L. E. Balley will be the dean of the college. He says that it will immediately take rank with the leading agricultural experiments of the best universities.
THE M. A. C. RECORD.
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Michigan State Agricultural College.
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G. Massek, Managing Editor.
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At Home's harbor, with the sail
poetry that I might expect the dolls and play
Perhaps your lessons—I don't mean a book—
the poem was written, professor of
the day,
"Tis getting late, so I'll be on my way.
With true affection, From your uncle

ELECTIVE COURSES.
As a result of a critical study of the elective courses made by the Harvard classes during their Sophomore, Junior and Senior years Professor Elliott asserts that the elective system does not produce a capricious selection of heterogeneous, disconnected elementary studies, but on the contrary, results in consistent plans of individual study throughout the college course. President Angelil says he has ears witness to the wishes of students, with few exceptions, have shown in this respect. The fear that selection would produce a one-sided education seems to be unfounded.

Other lines will be investigated but the above constitute the principal things to be studied. The work is varied and requires a great deal of care and planning.

DISCOVERS MISSING LINK.
Dr. Charles J. Chamberlain of the Botany Department has returned from Jalapa, Mexico, where he was sent by the Botanical Society of America, with several specimens of the flower of the dioon, a plant of the cycad group, which is thought to be the oldest known plant organization. It is believed that it was on earth as far back as the eocene age. It forms the connecting link between the earliest forms of plant life and the plant forms of the present, and its appearance was identical in time with the appearance of the fossil plants.

1. Vetches seem to degenerate variety tests will be made and the distribution of the plant forms of the various that have this tendency.
2. Cow peas and soy beans will be studied more thoroughly as to nodulation. The influence of fertilizers and inoculation on the number of nodules will be investigated; also the relation between protein content of plant and number of nodules.
3. Alfalfa will be tested thoroughly. The effect of inoculation will be studied. Some twenty farmers throughout the state are more interested in lettuce growing. The sample other than a foot high.

H. N. Hoke.

H. E. NORTON.

G. F. TALLADAY.

W. C. MARTIN.

ANN PENNINO.

FRIDAY.

TUESDAY, APR. 19, 1894.

POETICAL EPISTLE TO MISS EMMA STURGES.

The following poem was found among the manuscripts of the late Dr. B. C., president of M. A. C. from 1862 to 1873, and at the time the poem was written, professor of English literature.

From Agricultural College is my date
America and all that is.

"I now take my pen in hand,
To write you a small note from Michigan.
Dame Rumor—is in Virgil you will find
A full description of her form and modal;
And how she walks the earth, yet like the stars,
Sometimes like Venus smiles, then storms like Mars,
And tells a story "from whole cloth" or verity.
She cares not which, so be it a fairy—
Whispering things of you, but 'tis a secret,
And I'll not break her confidence, but keep it,
However, it keeps me wondering how, since

You've been in years and size a constant grower;
And that I might expect the dolls and play
Would be, by this time, promptly put away.
Indeed it is a season to be rejoiced in.
Receiving one note for many a letter.
And a day's work is done.

That cloud still floats, a matter of cloud.
Unknown, but higher hopes and joys find
Their better essence in all we use.
Oh, if we only knew how near we lie
The lasting of Life, whose joy and wisdom rise.
Our daily duties, in this world of round,
Would do our share, and seem like the clouds above.
Would, like our daily food, our power restore.
Roots and shoots are seen, and make our virtues more.

Spread with the light of cheerfulness our way.
Through fruit and flowers of earth, in end and day.
That wisdom so divine may be shone
In thy Saviour, take Him for thy Friend.

Eating the first, and keeping a long letter;
The rest, too, on this score, are each my delight.

Is in thy Saviour, take Him for thy Friend.
THE M. A. C. RECORD.

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A B O U T  T H E  C A M P U S.

Lieutenant McLean, of the U. S. navy, is visiting Prof. Vedder this week.

Thirty new artificial stone steps will be put in the botanic garden this spring.

On Friday, April 5, 64½ inches of snow fell at M. A. C. between the hours of 6 a. m. and 3 p.m.

President Snyder attended the dedication of the new high school building at Mason last Thursday.

Dr. Beal has received cuttings of ten species of willows from Prof. W. W. Rowley of Cornell University.

Professor H. C. White, president of the M. A. C. last Monday and Tuesday, visited her friend, Miss Gilbert, at her daughter, Miss Sarah Rose, at Traverse City.

Mr. and Mrs Craig have secured canvas cots at 95c. Woven wire screens and safety nailing.

Mr. and Mrs Craig have secured rooms at Mrs. Saltmarsh's. Mr. Craig has started lettuce and radishes in hotbeds and cabbages and tomatoes in the greenhouses.

A glossy list of botanical terms has been issued by Dr. Beal for use in sub-freshman and freshman classes. It is a revised edition of "Hints to Young Botanists."

Gov. Bliss has appointed Prof. LaFollette a delegate to the National and International Good Roads Convention to be held in St. Louis May 16-21.

The Farmers' Club will be entertained on Wednesday evening by stereopticon views from the prize winners of the "Pan-American." All are invited.

Miss Mary Thompson, teacher of woodworking in the manual training school of Toledo, visited her friend, Miss St. John, of the Woman's Department, last week.

Next Saturday at 6:00 p.m., Mr. Chas. D. Hurrey, International Student Secretary of the west, will speak to the college men in chapel.

The meeting will close in time for the ladies.

Mr. Chamberlain, of Williamston, for years furnished the Clubs with farm products, and is a friend whose weekly visits are always gratefully anticipated. To the young women he has now most surely endeared himself and the "Three Cheers" with which they thanked him testified to their appreciation of his kindliness.

The State Board held a regular meeting last Wednesday. Prof. Taft was granted a leave of absence to attend to his new duties in St. Louis. J. M. Rankin, '03, was appointed deputy inspector of orchards and nurseries. A new floor was ordered laid in the Feronian Society rooms.

The first meeting of the Horticultural Club for the spring term was held last Wednesday evening. A talk was given by Instructor Edwards on the "Relation of Bacteria to Soil," which was very interesting and full of suggestions. A good discussion followed. A large number were present and it was decided to hold meetings every Wednesday evening during the term. The executive committee anticipates some excellent programs for the term which horticultural students cannot afford to miss.

The young women in Club C enjoyed a pleasant treat last Friday evening when Mr. George S. Chamberlain, of Williamston, brought them in several gallons of fresh maple syrup and all took part in "Sugaring Off." To many this was a complete novelty, to others a delightful repetition of merry times annually enjoyed in their own homes. Mr. Chamberlain has for years furnished the Clubs with farm products, and is a friend whose weekly visits are always gratefully anticipated. To the young women he has now most surely endeared himself and the "Three Cheers" with which they thanked him testified to their appreciation of his kindliness.
The A. C. RECORD.

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THE M. A. C. RECORD.

Sometimes we have complaints in regard to the present strenuous life at M. A. C. In the college catalog published in '83 are found the following notes for Pres. Abbe: 5 a.m., first bell; 5:45, prayers; 6:15, breakfast; 7 Botany-class; 8 a.m., English; 9 a.m., Black Board; 10 a.m., Physical Science. The work would be finished by 11 a.m., dinner: 1:30 p.m., work. How would this program suit in 1865?

The winners in the Freshman declamatory contest in the Grangerian Society were:


2nd, A. T. Goddard, Speech on American War.

3rd, J. L. Baker, Lincoln's Second Inaugural Address.

Judges were Messrs. Gunson, Sheld and Goss.

Prof. Vedder is the author of "Moral Training" for use in the earliest course in surveying at M. A. C. Errors, Field Organization, Instruments, Adjustments and Use of the Compass, The Vernier, Magnetic Declination, Computation of Area, Field Notes and Problems are discussed in a clear, concise way. The manual contains many suggestions and will be very helpful to students in this subject. Exactness is the most striking characteristic of the book.

Some time ago The Record called attention to the new board of engineers at Michigan University. The plan outlined was that each boarder order the meat served on the table and pay for what he ate. The cost of all other provisions is shared by all members. Board in Memorial Hall under the old plan cost $2.20 a week. This year the cost of all meat, made at the college is $2.60 a week. Beef costs eleven or twelve cents a pound and eggs are secured for seven cents each. By this method, a student need not pay more than $2.60 more per week. The cost above the amount determined by the amount of meat he orders. It will be noticed that the cost of board has decreased. This is a step in the right direction and gives some idea of the cost of a meat diet.

The bulletin issued by the experiment station, has issued a warning against the selection of certain fruits and vegetables. The illustrations are excellent. The descriptions are simple and bring out the essential facts. Remedies are given for each pest described. Five pages are devoted to methods of preparing the various insects recommended in the bulletin. The following is a list of original drawings by the author: Eclectic series; cultiva- digit a tree for cover-corn; banded purple butterfly; folded leaves of hibiscus; cherry leaf-beetle; cottony maple scale; San Jose scale; peach scale; fruit bark-borer; and tunnels in branches; striped peache- borer; brawny flower-beetle; Euro­ pean pea scale on plum; aphides on plum; plum gouger and pits; strawberry root-borer; straw­ berry leaf-roller. The bulletin is an exceedingly valuable one to Mich­ igan fruit growers. The trees and shrubs affected are arranged in alphabetical order. The insects themselves under each of these head are grouped into those which work on the root, trunk, branch, foliage and flower of the fruit. The next bulletin will be on garden plants. Mr. Longyear will issue one on the diseases of garden plants.

NEW CENSUS FIGURES

The census bureau has issued a bulletin which gives the estimated population of the United States for 1903, exclusive of Alaska and the insular possessions of the United States, 75,000,000. This is an in­ crease of 25,000,000 since the census of 1900. The population is estima­ ted for 438 cities having 10,000 or more inhabitants in 1900. The number of towns and citi­ es having over 10,000 inhabitants, Massachusetts is in the lead with forty-seven, containing a population of 2,197,706 inhabitants. Consider­ ably by states New York leads in population with more than 7,000,000. Pennsylvania exceeds 6,500,000, and Illinois has passed 5,000,000, Texas 4,500,000, and Massachusetts, 4,000,000, having passed Missouri. Only twenty-two states now have less than a million inhab­ itants and fourteen exceed 2,000,000.

The bureau of the census has de­ cided to make annual estimates of population based upon what is known as the arithmetical method. This rests upon the assumption that annual increase for each year since the last census will be one-tenth of the percent increase of the last two censuses.

The annual cost of what we eat is a very large item in the budget of the average American family, and in this connection, the cost of meats has been brought out in many ways. It is very evident from the data which have been given that the average family has a fixed amount to spend on food, and that the amount spent on meats is very largely affected by the cost of meats. It will be seen that the cost of meats has been high during the last few years, and that the cost of meats is likely to be high during the present year. It is very evident from the data which have been given that the average family has a fixed amount to spend on food, and that the amount spent on meats is very largely affected by the cost of meats. It will be seen that the cost of meats has been high during the last few years, and that the cost of meats is likely to be high during the present year.

The following table gives some idea of the cost of a meat diet.

<table>
<thead>
<tr>
<th>Meat</th>
<th>Price per Pound</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef</td>
<td>$1.00</td>
</tr>
<tr>
<td>Pork</td>
<td>$0.80</td>
</tr>
<tr>
<td>Veal</td>
<td>$1.20</td>
</tr>
<tr>
<td>Lamb</td>
<td>$1.50</td>
</tr>
<tr>
<td>Chicken</td>
<td>$0.50</td>
</tr>
</tbody>
</table>

The bulletin is an exceedingly valuable one to Michigan fruit growers. The trees and shrubs affected are arranged in alphabetical order. The insects themselves under each of these head are grouped into those which work on the root, trunk, branch, foliage and flower of the fruit. The next bulletin will be on garden plants. Mr. Longyear will issue one on the diseases of garden plants.

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THE M. A. C. RECORD.

The first of a series dealing with insects in general. The illustrations are excellent. The descriptions are simple and bring out the essential facts. Remedies are given for each pest described. Five pages are devoted to methods of preparing the various insects recommended in the bulletin. The following is a list of original drawings by the author: Eclectic series; cultiva- digit a tree for cover-corn; banded purple butterfly; folded leaves of hibiscus; cherry leaf-beetle; cottony maple scale; San Jose scale; peach scale; fruit bark-borer; and tunnels in branches; striped peache- bor-er; brawny flower-beetle; Euro­ pean pea scale on plum; aphides on plum; plum gouger and pits; strawberry root-borer; straw­ berry leaf-roller. The bulletin is an exceedingly valuable one to Mich­ igan fruit growers. The trees and shrubs affected are arranged in alphabetical order. The insects themselves under each of these head are grouped into those which work on the root, trunk, branch, foliage and flower of the fruit. The next bulletin will be on garden plants. Mr. Longyear will issue one on the diseases of garden plants.

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