

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 9.

LANSING, MICHIGAN, TUESDAY, APR. 12, 1904.

No. 29

NEXT SUNDAY EVENING.

Mr. D. S. Sutherland of Detroit, will speak at the Union meeting next Sunday evening. Mr. Sutherland is Division Superintendent of the Michigan Central Railroad, and comes highly recommended as a speaker. Everybody should plan to attend.

BIRD ARRIVALS.

Following is a list of the birds which I have personally noted on the campus this year, with the date of first appearance. For comparison the date of arrival in 1903 is given also. It is very probable that in a few cases the species might have been found at nearby points several days earlier in both years; in fact, both meadow larks and song sparrows were reported by others at least four days earlier than my records for this year.

	1904	1903
Crow	March 1	Feb. 22
Robin	" 1	March 5
Crow Blackbird ..	" 4	" 8
Bluebird	" 4	" 8
Rusty Blackbird ..	" 14	" 8
Meadowlark	" 23	" 13
Song Sparrow ..	" 23	" 11
Red-winged Black-		
bird	" 23	" 14
Phoebe	" 25	" 20
Killdeer	" 29	" 12
Towhee; Chewink ..	" 30	" 22
Mourning Dove ..	April 6	" 7
Golden-crowned		
Kinglet	" 6 April 10	
Cowbird	" 7	" 1
White-bellied		
Swallow	" 7 no record	

In 1903 four other species appeared on the campus before April 6, viz., Flicker, March 21; Kingfisher, March 30; Sapsucker, April 5; Purple Martin, April 5; and the Grass Finch was seen on the adjoining farm March 22. This year no one of these has been noted yet.

WALTER B. BARROWS.

Y. M. C. A.

C. E. Willits led the Thursday evening prayer meeting. Messrs. C. B. Taylor, A. B. Rogers and B. Wermuth gave interesting talks on the work of Missionary Brockman, of India, and of D. S. Bullock, of Chile. As a college we are interested in Brockman's work in India, because we are helping him by helping to pay his clerk, who is a young lady from Michigan. We are interested in Bullock's work as a college because he is an M. A. C. man and well known to most of us. The meeting was well attended.

Rev. John Hoag, of Chicago, conducted chapel services Sunday morning. Mr. Hoag selected for his text Matthew 25:28, 29—the parable of the talents. He showed that this seemingly unkind treatment of the man with one talent is the natural law of the universe, as true in the spiritual and mental realms as in the physical. It is only by the proper use of what we already have that we can expect more. The ser-

mon was very suggestive, the attendance good.

Mr. Thomas Gunson spoke before the union meeting of the Y. W. and Y. M. C. A. Sunday evening. Theme: How do I answer the question Christ asked of Peter,—"But whom say ye that I am?" Matthew 16:15. The discussion of the theme was very thoroughly given as it was in Mr. Gunson's characteristic way, that of impressive earnestness which carries conviction. The attendance was good and all were benefited by the service. The violin solo and the selection by the quartette were both excellent and highly enjoyed by all present. It is only fair to say that all the special musical selections given Sunday evenings at the union meetings have always been a success and always appreciated by the audience.

BASEBALL.

A practice game was played with the Howell high school last Saturday. The day was cold and not suited for fast playing. Howell has a fine team. They were the interscholastic state champions of Michigan last year and will be a strong team this year. M. A. C. tried out 16 men. Most of the candidates did well. Of the old men, Bowditch, Armstrong, Wilcox, Millar, Burke, Rasmussen and Gunnison were out. The new men who showed up well were Canfield, Chapman, Hyde, F. C. Millar, Maynard and Ellsworth.

1	2	3	4	5	6	7	8	9	T.	H.	E.
M. A. C.	2	0	1	3	0	2	0	2	x	10	11
Howell	0	0	1	0	0	0	0	4	0	5	7

Umpire—Tabor of M. A. C. Time of game, 1 hour 40 minutes. Batteries—M. A. C., Hyde, Millar, Chapman, Canfield. Howell, Newcomb and Newcomb.

The opening game of the regular schedule will be called on Thursday afternoon at 4 o'clock. Detroit College will play here at that time. The line-up has not been decided.

The following men have been sent to the training table in Abbot Hall: Chapman, Rasmussen, Burk, Wilcox, Capt. Millar, Bowditch, Gunnison, Maynard, Towner, Hyde, Millar F. C., Ellsworth, Canfield and Armstrong. The table for the track team and wrestlers will be started in about a week.

An inter-hall track meet will be held next Saturday at 2 o'clock. All the track and field events will be held. First place will count five points and fifth place one point. An inter-class meet will be held on April 23. Everybody should come out to encourage these meets.

'88.

G. L. Teller, chemist with the Milling and Baking Institute of Technology, Chicago, has been investigating winter-wheat flour. He has analyzed 15 patent flours from Illinois, Missouri, Indiana, Michigan and Tennessee. The values of the different brands are discussed and a blend of this flour is regarded as a standard.

A DISCOVERY.

The *Oregon Agriculturist and Rural Northwest* of April contains the following article: "The Michigan Agricultural College announces a discovery which suggests a new line of experiments in horticultural operations. It is that the addition of insoluble matter will reduce to an amazing extent the injurious effect of solutions upon seedlings. Corn seedlings which would barely stand a solution of a certain strength would endure without harm a solution 64 times as strong where ground quartz was added to the solution. The ground quartz in no way affected the chemical character of solution. The direct conclusion drawn from this discovery was that chemical analysis of soil fails to determine what there may be in the soil available for plant growth." The *Agriculturist* suggests that this discovery may prove of value in spraying operations. The discovery referred to appeared in the M. A. C. RECORD recently and was worked out by Prof. Dandeno of the botanical department, who has carried on a long series of experiments along this line.

CONTESTS IN NORTH DAKOTA.

Prof. Jeffery has been looking over a set of essays by the students of the North Dakota Agricultural College on the subject, "Gang Plows for North Dakota." The John Deere Plow Co. offers a prize of \$25.00 for the best essay. Two of the essays were exceptionally good. The department of farm mechanics of the N. Dakota College has instituted the following contests:

1. The J. I. Case Threshing Machine Co. Prize—For the best essay on "Threshing Separators best adapted for North Dakota," \$25.00.
2. The Milburn Wagon Co. Prize—For the best essay on "Farm Wagon Construction as related to the requirements of North Dakota," \$25.00.
3. McCormick Division I. H. Co. Prize—For the best essay on "Grain Harvesters best adapted for North Dakota," \$25.00.
4. John Deere Plow Co. Prize—For the best essay on the subject of "Gang Plows for North Dakota," \$25.00.
5. The Dowagiac Drill Co. Prize—For the best essay on the "Construction and requirements of Grain Drills best adapted for the use of North Dakota Farmers," \$25.00.
6. The American Thresherman Prize—"The Care of Traction Engines." 1st prize, one Ham Headlight, value \$11.00; 2nd prize, one Barth Lifting Jack, value \$8.00; 3d prize, one Pomeroy Vise, value \$5.00.
7. Columbus Buggy Co Prize—For the best essay on "A Strictly High Grade Buggy," \$10.00.

Pres. Snyder has bought a Shetland pony. The boys are enjoying the pony very much.

ALUMNI.

'85.

Prof. J. D. Towar of Australia has been conducting a series of experiments with reference to raising lambs for early market. Different crosses have been made. The result so far has been that Dorsets have preceded Shropshires two or three weeks and thus secured an advantage in the early market. Shropshires, however, overtook the Dorsets by the time the latter were four months old. The Dorsets have had the advantage as to price.

'88.

Prof. P. M. Chamberlain is chairman of one of the important committees to entertain the British Society of Mechanical Engineers. The American and British Societies will hold a joint meeting in Chicago to begin May 31. Prof. Weil will attend the meeting.

'93.

W. Paddock, of the Colorado Agricultural College, has issued a bulletin on apricot blight. The injury done to apricots greatly resembles that caused by the common pear blight. The disease is of bacterial origin and due to the same organism that causes fire blight of pears. The diseased portions of the trees should be removed and care should be taken that the infection is not carried from one tree to another.

'97.

E. D. Sanderson, of the Texas Agricultural College, has issued a circular on how to combat the Mexican cotton-boll weevil in summer and fall. An early maturing cotton should be grown, the beetles should be destroyed by grazing the cotton and pulling and burning unused stalks. Late fall or early winter plowing is also suggested. This weevil has done an immense amount of damage and seriously threatens the cotton industry of the south. Messrs. Sanderson and Green have also issued directions for treatment of insects and plant diseases.

'95.

Guy L. Stewart is now special agent for the Southern Railway and has changed his location from Parkersburg, West Virginia, to Columbia, South Carolina. He is working in the Land and Industrial department and looks after the fruit and truck men.

With '98.

F. J. Beal is chemist and technical superintendent for the Michigan Cement Co. at Wyandotte, Mich. The firm uses the carbonate of lime residue obtained as a by-product in the manufacture of caustic soda from the Michigan Alkali Co. This is mixed with highly siliceous clay from Toledo and burned in the ordinary rotary cement kiln. Mr. Beal visited M. A. C. during vacation.

'03.

A. C. Digby has changed his address from Rushton to Yale, Mich.

THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE
COLLEGE YEAR BY THE
MICHIGAN STATE AGRICULTURAL COLLEGE

EDITORS.

G. MASSELINK, MANAGING EDITOR.

ASSOCIATE EDITORS:

H. N. HORNBECK, '04a.

L. T. CLARK, '04a.

C. D. STERLING, '05m.

BESS K. PADDOCK, '05w.

G. F. TALLADAY, '05a.

R. C. POTTS, '06a.

GRACE BRAHAM, sp. w.

R. D. MALTBY, '04a.

ANNA PICKETT, '04w.

Subscription, - - - 50 cents per year.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich. Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, APR. 12, 1904.

A BIRD.

"That thar perfesser of th' Michigan Artificial College who wants 't kill all th' robins must be a 'burd himself," said Reuben Jay, of Bad Axe, this morning. "If he would present each of th' spoon-fed graduates of th' M. A. C. with his picter it would be useful in th' cornfield perhaps to keep th' crows from scratchin' th' corn. Don't yew tetch th' robins, Mr. Perfesser Headache, er—be Josh!"—*Detroit News.*

'91.

Pres. Kenyon L. Butterfield, of the Rhode Island College of Agriculture and Mechanic Arts, has recently held a successful conference on rural progress in Kingston. Many prominent speakers were present and methods were suggested for improving religious, social and industrial conditions.

A particularly interesting paper was delivered by Hon. John G. Clarke, of West Kingston, secretary of the state board of agriculture, on the topic "Is Farming Prosperous in Rhode Island?" In part he said:

"Thirty years ago scattered all over this state were little villages, each of which had its cotton or woolen mill. In 1870 the town of Exeter had seven of these establishments, while today she has none. Exeter is not alone. All of our country towns, especially those off of railroads, have witnessed the passing away of their manufacturing industries.

"When all these little mills were running the farmers in their immediate vicinity had a ready market for their milk, butter, eggs and vegetables, without having to ship them away to distant cities, for what the village people could not use was taken to the mill-store and sold or traded for goods from the store which the farmers did not raise but had to have.

"Thus the village store became a sort of commission house, buying and selling farm products, and shipping it to the city markets, taking all of that responsibility and experience from the farmers, who in the end were to be the losers by not knowing how to handle their goods.

MARKET WAS GONE.

"As competition forced these little establishments out of business, the people drifted, as did the business, to the cities and large towns. With them went not only the retail markets of the farmer, but the wholesale market as well, for the country stores could not live on the profits gained from handling farm produce and were obliged to close. Thus the farmer's market was gone, and he must look elsewhere for a place to sell his produce.

"In the town of Little Compton we find a grand illustration of what can be and is being done in the poultry business. There are still many farms which can be utilized along this line, to the great advantage of the state and the farmers. This is an industry which does not demand as quick transportation as some others, and is therefore adapted to those farms that are a long distance from railroads.

"The dairy industry has gradually increased during the last few years.

"Other farmers are turning their attention to raising hay for market. There is probably no more paying crop today than hay, and no better hay market in the world than Providence.

"Near the cities and large villages, market gardens are very profitable. In 1900 there were 4873 acres of vegetables reported. This does not include potatoes and onions, which alone were valued at nearly a million dollars. A large percentage of the latter were raised on the island of Rhode Island. This branch of our agriculture ranks second in the value of the product (hay and forage ranking first).

INCREASE OF FRUIT GROWING.

"Fruit growing is attracting the attention of many of our farmers, and should prove a very profitable business. The consumption of fruit has increased faster than any other article of food, and will continue to increase. Good fruit put upon the market in an attractive way always brings good prices."

In conclusion Mr. Clarke said: "Aside from any financial consideration, this educational and social advancement which has been brought about, justifies all the temporary depression agriculture has suffered, for under old methods these changes would never have taken place.

"The question, 'Is farming prosperous in Rhode Island?' will depend somewhat upon what our ideas of prosperity are."

Pres. Butterfield spoke on the advantages of co-operation for rural progress. The conference was interesting throughout and many valuable ideas were suggested.

'95.

C. H. Robison is now located at Milan, Mich. He was in Dearborn until the last of March. He has fine dental parlors and with 200 pounds of avoirdupois he should be able to extract teeth, painless or otherwise.

With '00.

Clayton J. Perry is a member of the firm Perry Bros., of Grand Rapids. They manufacture a patent window screen which has had a good sale and is meeting with general approval. This screen is fastened to the window sill and also to the sash. Raising the window unrolls the screen, lowering it, rolls up the screen thus putting it out of view. The screen is known as the

patent automatic disappearing window screen.

'01.

John Dunford, of the electrical engineering department of the university, visited M. A. C. Saturday.

With '01.

Miss Hannah Bach, of the Detroit Conservatory of Music, visited her friends at M. A. C. from Friday till Monday.

'03.

Bernard Nagelvoort lives in Detroit and recently became a proud father. Some particulars are lacking and hence more definite information cannot be given at present.

With '06.

Augustus G. de Clercq was married to Miss Clara M. Wordley on Saturday, April 2, in Chicago. Mrs. Clercq was a special student at M. A. C. in 1902. The RECORD extends congratulations.

With '08.

Hiram Carter, mention of whose death was made in last week's issue, was born in Armada, Mich., October 27, 1885. He entered M. A. C. last fall about four weeks late. By hard work he had caught up with his class at the time he was taken ill. The physicians at the college and in Lansing advised him to go home since his recovery was extremely doubtful. In fact they told him that he could live but a short time. He returned to Armada about the first of December and continued to fail from that time until his death, Sunday morning, April 2. The funeral was held on Tuesday, April 5, at 2 o'clock, and was largely attended. While a student at M. A. C., Mr. Carter attended strictly to business and was considered a young man of excellent promise. His instructors speak well of him. He made many friends at M. A. C. and had a host of friends in Armada. The college community extends its sympathy to the bereaved relatives and friends.

The Thursday evening Y. W. C. A. meeting was conducted by Miss Eva Keeney who became our president upon the resignation of Miss Irene Way. The meeting was well attended and interesting. We expect Miss Phillips and Miss Harding to be with us this week. Miss Harding is to have charge of the meeting.

E. S. Bartlett of the sub-freshmen class sheared the sheep at the college this spring. He used a machine

and the work was well done. The total weight of wool was about 700 pounds. The heaviest fleece was from a Lincoln ewe lamb, one year old, and weighed 14.8 pounds. A Cotswold buck sheared 14.2 pounds and a Rambouillet 14.1 pounds.

There is an iron box in the mechanical department which has a unique history. The mystery is so involved that all attempts to solve it have been unsuccessful. Messrs. Brown and Crawford made a few vigorous expressions when an inquiry was made. The box in question is quite large. Its conception is unknown, its purpose undefined and its future hazy. The master mechanics can be interviewed if more definite information is wanted.

A. F. Doyle of Saginaw, formerly superintendent of the Bad Axe schools, visited M. A. C. last Friday. He is interested in the manufacture of brick. Sand and lime are strongly compressed, then steamed at 125 pounds pressure for 10 hours. R. E. Olds will build a residence of this brick on the corner of Washington avenue and Main St., Lansing. Mr. Doyle consulted with Prof. Kedzie in regard to the color of the brick.

Sup. J. K. Osgerby, of Howell, accompanied the base ball team to M. A. C. last Saturday. He is somewhat related to M. A. C., as he is a brother-in-law of C. A. Hathaway '92 and a cousin of the Clemons' boys, '86. Mr. Osgerby is much interested in M. A. C. The Howell schools are in fine shape and their base ball team is composed of a very gentlemanly lot of young men. They play ball every minute and tend to their own business both during and after the game.

In *Machinery* for April, 1904, W. S. Leonard has an article on "Some Practical Points in Machine Designs." The two requirements in a new machine are that it shall accomplish in a satisfactory manner the particular purpose for which it was designed and that it shall possess "constructional economy." It should be easy to understand and operate, should not contain multiplicity of parts and should be easily assembled and taken apart for repairs. All parts should be of such shape as to admit of being machined with ordinary shop appliances. Taper fits should be used only in special cases. Strains must be carefully considered and provided against. The young designer is cautioned not to be extravagant in estimating the performance of a machine. "It may accomplish all you predict; it is more likely to do less."

The Latest and Best Creation in Confections

Wilson's Bitter Sweets

TRY THEM AT

WILSON'S SUGAR BOWL,

106 Washington Avenue South.

NORTON'S RANGES!



The Easy Line to Use

Take it EARLY in the SPRING,
and avoid that tired feeling
which surely comes un-
less you have a

MARQUART OR LINCOLN.

CHAS. M. NORTON,
111 Washington Ave S.

Furniture...

Headquarters

COMPLETE LINE OF
FURNITURE FOR
STUDENTS' ROOMS

Canvas Cots at 95c. Woven Wire
Cots at \$1.50. Woven Wire
Springs at \$1.50, \$2.00, and
\$2.50. Mattresses at \$2.00, \$2.50
and \$3.00. Tables at \$1.50 and
\$1.35. Chairs at 50c up.

All goods delivered
to your room free.

M. J. & B. M. Buck.



*This Cut represents one
of the many*

New Styles in Men's Hats

*which we now offer for
your inspection. Nothing
but latest styles and best
qualities find place here.
Same applies to our neck-
wear and cap stock—they
are up-to-date in every res-
pect. Student patronage
solicited.*

ELGIN MIFFLIN

THE JEWETT & KNAPP STORE

Lansing's Low Priced Reliable Store

Every Department full of New Fall Goods.

New Dress Goods, Silks, Laces, Gloves, Hosiery, Underwear, Silk
and Cotton Shirt Waists, Muslin Underwear, Dress and Walking Skirts,
Tailor Made Suits, and Jackets.

We also carry a Complete Stock of Lace Curtains and Draperies.

Jewett & Knapp,

222, 224 Washington Ave. S.

Lansing, Mich.

Rubber Heels

(Next to Wings)

The rubber heel makes no noise,
diminishes perceptibly the jar inci-
dent to walking and makes a conse-
quent saving in nerve force.

Price, 40c. a pair.

Special to M. A. C. Girls.

Also rubber sole and cloth top
gymnasium shoes.



C. D. WOODBURY,

HOLLISTER
BLOCK.

ABOUT THE CAMPUS.

The cry at Ypsilanti now is "On
to M. A. C!" A large delegation
will be here on April 22, the time
for the debate.

A black overcoat was left in the
mechanical laboratory about two
weeks ago. Owner can call for it
at the office of Prof. Weil.

This evening Mr. C. A. McCue
will address the M. A. C. Foresters
at 6:30 on "The Inspection of Land
for Forest Reserves."

Prof. A. R. Sawyer came here on
Monday and has secured rooms at
Mrs. Kedzie's. Mrs. Sawyer is
visiting in Terre Haute, Ind., at
present.

The dairy department has cheese
on sale. It was made last winter.
Samples of Michigan, Cheddar and
eage are on hand. The quality is
excellent.

The new greenhouse on the south
end of the horticultural laboratory is
progressing as to construction, al-
though somewhat slowly an account
of the weather.

Prof. Jeffery spoke to a farmers'
club at Mason last Saturday, on the
subject "Corn Breeding." The
attendance was fairly good and the
general interest was strong.

Mrs. C. F. Wheeler of Washing-
ton, D. C., is visiting M. A. C. as
the guest of Mrs. Marshall. Prof.
Wheeler accompanied her as far as
Pittsburg and from there went to
St. Louis.

One of the students in engineering
chemistry reported the other morn-
ing that he [had gotten copper

nitrate in his mouth three times in
"suck-cession" by the incautious use
of a pipette.

The department of agronomy has
sent photographs of the laboratory
and charts used in farmers' institutes,
and a King's aspirator, used to deter-
mine the effective size of soil grains,
to the St. Louis exposition.

Barrels are of various kinds, dimen-
sions and contents. Their methods
of transportation are numerous.
For formulae giving capacity and
law for finding the center of gravity
apply at the mathematical end of
Howard Terrace.

The catalog of the College for
the present year is in the hands of
the printer, at least in part. The
general plan will be the same as last
year's. Only such alterations will
be made as the changes at the Col-
lege necessitate.

The wheat crop of the United
States for 1903 was 637,821,835
bushels; the oat crop was 784,094,199
bushels and the corn crop was
2,244,176,925 bushels. These are
the final estimates of the U. S. De-
partment of Agriculture.

The May Bulletin will be devoted
to questions and answers concerning
the college. Each department will
receive special notice. Entrance
requirements, expenses, studies
pursued and opportunities for the
graduates will be considered.

The farm department has pur-
chased 6 high-grade Lincoln wether
lambs to be used for special feeding
purposes. The average weight was

131 pounds. They produced over
15 pounds of wool per head this
spring.

Students excused from drill for
any cause whatever, must take an
extra subject or subjects to make up
the credits for which drill is sched-
uled. This point is sometimes for-
gotten. Several Seniors are in this
quandary today and things are rather
unpleasant.

Prof. Weil has a card in his office
which says, "An ounce of loyalty is
worth a pound of cleverness." An-
other one says, "Talk happiness,
the world is sad enough without
your woes." Prof. Weil is fond of
epigrams. Taffy and "epitaffy" are
not in his line.

The forestry department has sent
a set of photographs illustrating the
silvicultural features of forestry to
St. Louis. A set of models of a
forestry nursery is in preparation
for exhibition purposes, an appro-
priation having been made from the
government fund for this purpose.

The long distance squad now
numbers 14. Leach has been elect-
ed captain. Director Brewer says
it is the best squad he has ever seen
in any Michigan college.

The athletic field will be put into
fine shape. Tile drains will be put
in and everything will be made tip
top.

Mr. Jenison, of the mechanical
department, has recently completed
a pocket catalog, giving the where-
abouts of all graduates and of all
those who were connected with the
department for two years. This has

taken considerable time and is not
only interesting but also of much
value.

The Columbian Literary Society
entertained their friends at an eleven
o'clock party last Friday night.
The Eclectic Society kindly gave
the use of their rooms, which
added considerable to the entertain-
ment of the evening. Prof. and
Mrs. Brewer acted as patrons for
the occasion.

March gave 21 cloudy days at
M. A. C., four were clear and six
fair. The maximum temperature
was 64° on the 31st and the minimum
was 8° on the 4th. Nine inches of
snow fell on the 14th and five on the
17th. The rise in temperature from
the 19th to the 25th was responsible
for the flood which reached the
highest point on the 25th.

A \$100,000 cassava starch factory
is to be built at Lake City, Fla., by
Chicago capitalists. The capacity
of the mill will be 120 tons of raw
material per day. Readers of the
RECORD will recall the review of a
bulletin issued by S. M. Tracy, '68,
on this plant. It will undoubtedly
prove a close competitor for northern
starch plants.

Russel H. Conwell, president of
Temple College, Philadelphia, spoke
to a large audience at M. A. C. last
Monday evening. The subject of
his address was "Acres of Dia-
monds." Pres. Conwell is a forcible
speaker and has a mission in the
world. He gave correct ideas as to
success in life and how to accomplish
real good. The lecture was enjoyed
by all.

BASEBALL SCHEDULE.

The baseball schedule as adopted by the faculty is as follows:

- April 14, Detroit College at M. A. C.
- April 22, U. of M. at M. A. C.
- April 26, Albion at Albion.
- April 27, Kalamazoo at Kalamazoo.
- April 30, Detroit College at Detroit.
- May 4, Hillsdale at M. A. C.
- May 7, Alma at M. A. C.
- May 9, Olivet at M. A. C.
- May 14, Kalamazoo at M. A. C.
- May 20, University of Wisconsin at M. A. C.
- May 21, Olivet at Olivet.
- May 26, Albion at M. A. C.
- May 28, Alma at Alma.
- May 30, Ypsilanti at M. A. C.

Mrs. F. W. Robison is visiting at her home in Milan.

A new department of farm engineering has recently been added to the school of agriculture in Madison, Wis. The last legislature appropriated \$15,000 for the erection of a new building, which will be put up this summer. Instruction will be given on how to run binders, mowers, steam and gasoline engines, plows, etc., and will be designed to give a practical education to young farmers in this important branch of farm work. Michigan should have the same equipment.

Reports from the different counties indicate an increased demand for one-day farmers' institutes. Several have asked for six such institutes. Four have been held so far in these counties. Institutes are of great value to farmers and the legislature should make an additional appropriation for this purpose. Wisconsin appropriates \$12,000, other states even more. Michigan has more institutes than any other state except Pennsylvania and the cost per capita of attendance is the lowest by a considerable amount. Michigan's appropriation should be increased to \$12,000 at least.

There seems to be a general misunderstanding in regard to the length of time during which conditions can be made up. Suppose a student receives D in Freshman algebra, fall term. He can take a special examination in this subject on Monday of the term following the failure. In case he neglects to do this he can make arrangements to take it at some time during the winter or spring terms. If he waits till the next fall term, he will be obliged to take the subject in class unless the generosity of the faculty should grant him a special privilege. However, it is not safe to depend on this quality.

"The Acorn," a paper published in Three Oaks contains an interesting sketch of Hon. Henry Chamberlain. Mr. Chamberlain recently celebrated his 80th birthday and was the recipient of many congratulatory messages. He was a member of the Michigan Legislature in 1848, candidate for the State senate in 1864, for Congress in 1868 and 1870, for governor in 1874 and again for congress in 1876. He has received the vote of the democratic party three times for the United States Senate. He was a member of the

State Board of Agriculture from '83 to '89 and from '91 to '97. Mr. Chamberlain is well known at M. A. C. His son graduated here in '88 and is now professor of Mechanical Engineering at Lewis Institute, Chicago.

The M. A. C. district school should be a model as to condition of grounds. We have courses in landscape gardening and beautifying of the home. We preach to other people the inestimable value of the beautiful in nature. We claim that it is a simple matter to plant a few shrubs, have a flower bed or two, and to make things neat and attractive. In fact, we are thinking of the advisability of instituting an extension course to teach country and village folks how to do these things; and yet our own district school is not a bit better than the average rural school in the state, at least so far as the grounds are concerned. These things should be changed. The "Delta" has plenty of talent. The district is large enough and rich enough to stand the expense. Spring is here, now do something. The M. A. C. school should be a model in every way. It can not now claim this distinction.

Ex-secretary I. H. Butterfield of Pontiac and several members of the executive committee of the State Agricultural Society visited at M. A. C. last Thursday. The committee met in Lansing to decide upon a permanent location for the state fair. No agreement was reached. After 50 ballots had been taken, the meeting was adjourned. The vote stood 13 to 12 in favor of either Saginaw or Pontiac. Since 14 were necessary for location, nothing could be done. Jackson polled 7 votes at one time and then gradually dropped out. A good deal of feeling has been stirred up. Why not bring the fair to neutral ground? Lansing is centrally located and has many advantages. Many state fairs are located at the capitol, why not Michigans? If either of the leading candidates get it, there is bound to be a fight when a bill comes up for a state appropriation. Lansing has remained out of the race, but could offer as many advantages as either Saginaw or Pontiac.



BASE BALL GOODS!

OF ALL KINDS NOW IN STOCK.

We shall make every effort to keep in stock just what you want.

J. H. LARRABEE,

325 Washington Ave. S. LANSING.

It's Record shows it to be

THE POLICY HOLDERS' COMPANY

The Mutual Benefit Life Insurance Co.,

OF NEWARK, N. J.

CHAS. B. COLLINGWOOD, District Manager,
Agricultural College. Lansing Office, 100 Hollister Block.

WHEN IN NEED OF Society or Dance Programs

CALL ON
**Lawrence & Van Buren
Printing Co.,**
122 Ottawa St. E. Lansing, Mich.

DIRECTORY

LANSING BUSINESS and
PROFESSIONAL MEN

The names in this Directory, as well as those of all our other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

BARBERS.

M. A. C. BARBER SHOP, Rooms in New Bath House, H. A. Sias, Propr.

BOOKS AND STATIONERY.

A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames, Fine Framing a Specialty. New stock. New Stock.

CITY BOOK STORE, Fountain Pens, Drafting Tools, Stationery, Cards Engraved, Pocket Books, Card Cases and Bibles. Tennis, Football and Baseball goods. Crotty Bros., 206 Wash. Ave. N.

BOOK BINDERS.

GEO. G. BLUDEAU & CO.—Bookbinders Account book makers, paper ruling, library and fine art bindings, file boxes, map mounting, albums, pocket books, etc. Citizens phone No. 56. 109 Wash. Ave. N.

WAGENVORDE & CO.—Bookbinders, Blank-book Makers, Library and Art Bindings, Albums, Pocketbooks, Map Mountings, etc. Back numbers of magazines and periodicals supplied. Bell phone 378. 109 Washington Ave. South.

BOOTS AND SHOES.

C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

CONFECTIONERY.

ONLY the best candies at the "Sugar Bowl," Washington Ave. S.

CLOTHING.

BUY your Dry Goods and Clothing, Hats, Caps and Furnishing Goods at H. KOSTICHIEK & BRO'S, 113 Washington Ave. N., and 210 Washington Ave. S.

LOUIS BECK.—Clothier. Gents' Furnishings, Hats and Caps. 112 Washington Ave. North.

CROCKERY AND GLASSWARE.

H. LARNED.—China, Glass and Lamps. 105 Washington Ave. S.

DENTISTS.

A. F. GORDON, D. D. S., M. A. C. '91, U. of M. '01. 218 Washington Ave. S. Phone, Citizens 862.

J. E. STOFFER, D. D. S., Office 105 Washington Ave. S. Former M. A. C. student.

R. W. MORSE, D. D. S., Hollister Block, Room 517. Citizens Phone 52, Bell Phone 396.

N. H. MOORE, D. D. S., Office 411-13 Hollister Building, Lansing, Mich. Citizens phone 175.

DRUGGISTS.

ROUSER'S CAPITAL DRUG STORE. Up to date, Corner store, Opposite Hollister Block.

ROBINSON DRUG CO., successors to Alsford & Son, Drugs and Druggists' Sundries, 102 Washington Ave. N.

DRY GOODS.

THE JEWETT & KNAPP STORE. Dry Goods, 222-224 Washington Ave. S.

ELECTRICAL SUPPLIES.

CAPITOL ELECTRIC CO. Electrical Supplies, Telegraph Instruments and Telephones, 321 Wash. Ave., S.

ALL MEATS

May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us.

We make daily trips to the College. BOTH PHONES. Careful attention given to 'phone orders.

A. C. ROLLER,
Successor to GOTTIEB REUTER.
Washington Ave. South.

FURNISHING GOODS.

ELGIN MIFFLIN.—Ladies' and Gentlemen's Furnishing Goods. See ad.

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

HACK AND BAGGAGE LINES.

ORDER your hacks for parties at Carr's Hack Line. Livery in connection, 410 Washington Ave. N.

HARDWARE, STOVES AND TINWARE.

NORTON'S HARDWARE—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

INSURANCE.

THE DYER-JENISON-BARRY CO., LTD., Incorporated) Hollister Block. All kinds of the best insurance. Strongest agency in city.

JEWELERS.

CHAS. A. PIELLA. Jeweler and Optician, 121 Washington Ave. N., Lansing, Mich.

MANICURE AND HAIRDRESSING.

MRS. O. T. CASE—Manicure and Hairdressing Parlors. Masquerade Wigs for Rent. Switches made of cut hair or combings. New 'phone 118. 222½ Washington Ave. S., up stairs.

MERCHANT TAILORS.

JOHN HERRMANN'S SONS, 218 Washington Avenue N.

WOODBURY & SAVAGE.—Tailors, Student trade solicited. Opposite Hotel Downey, North.

MUSIC, PIANOS, ETC.

GRINNELL BROS. Pianos, Organs and everything in the line of music. 219 Washington Ave. N.

OCULISTS.

CHAS. G. JENKINS, M. D.—Diseases of Eye, Ear, Nose and Throat. Hours, 9 to 12 a. m., and 2 to 5 p. m. Citizens Phone No. 1030. 224 Washington Ave. South.

PHOTOGRAPHS.

C. E. WALTER, M. A. C. I make Photographs; Landscapes, Buildings, Interiors, Flash-lights, Lantern Slides, Transparencies, Medallions and Stereoscopic Views, Developing and Printing for Amateurs. Views for sale.

PHYSICIANS.

J. W. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 219 Capitol Ave.

D. R. H. W. LANDON. Office and residence, M. A. C. Office hours from 7 to 8:30 a. m., and 12:30 to 2, and 6:30 to 8 p. m. Sunday office hours 4 to 5 and 7 to 8 p. m. Now phone 1560.

D. R. OSCAR H. BRUEGEL. Hours 9 to 11 a. m.; 2 to 4 and 7 to 8 p. m. Agricultural College, Mich. Citizens phone 1502.

PLUMBERS.

SHIELDS & LEADLEY, Plumbing and Heating. 309 Wash. Ave. N., Lansing. Both Phones.

SPORTING GOODS.

J. H. LARRABEE. Base Ball Goods, Foot Ball Goods, Tennis, Golf, Guns, Ammunition and Fishing Tackle. 325 Wash. Ave. S.