

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 12.

LANSING, MICHIGAN, TUESDAY, OCTOBER 23, 1906.

No. 6

M. A. C. 33—De Pauw 0

There were many conjectures and much speculation as to just what we would do to De Pauw in last Saturday's game, but whatever the prophesy concerning the result, it is quite certain that said result was a surprise to both locals and visitors.

Never has there been such playing on an M. A. C. gridiron as was seen during the first fifteen minutes of the De Pauw game. The visitors were simply played off their feet and lost courage on the start which may in a measure account for the size of the score. Oncely, their big tackle stated that in his six years of football, he had never ran up against such fast work. In the first half the visitors did not make a single first down. Their right half, and captain, for which, on account of his record as ground gainer, the team had worked up a special formation on defense, was unable to make a single gain.

De Pauw started the game with kick off to Doty, who with the aid of good interference made a good return. M. A. C. lost the ball on a fumble and De Pauw tried for goal, but failed. The locals then started down the field, and Bowditch crossed the line for the first touchdown after ten minutes of play. Small failed goal. The next few minutes was fought stubbornly, but M. A. C. proved her mettle and again sent McKenna over the line. After a punting duel, Small made 30 yards and Doty with the aid of most excellent interference made the third touchdown. De Pauw then kicked the ball clear over the line, and Bowditch punted back for 40 yards. At the first play the visitors fumbled the ball; Shedd secured it, and added another 5 to the score, bringing the total number of points up to 21 in the first half.

The Hoosiers braced somewhat in the second half, and although punting, seemed to take on more prominence, the home team added

12 more points. Doty, Small, McKenna, Bowditch and Allen kept up a tremendous pace while Moore, Parker and Campbell tore up the opponent's line repeatedly. The visitors were, in fact, outclassed at every stage of the game and M. A. C. is happy. The men all came out in excellent condition.

The line up:

DE PAUW		M. A. C.
Lawrence	C	Moore
Hill	R G	Parker
Girder	L G	Campbell
Print	R T	Dersnah
Oncely	L T	Shedd
Check		
Jewett	R E	Boyle
Tucker	L E	Allen
Jewet (Capt)	R H	McKenna
Slaughter	L H	Bowditch
Grissell	F B	Doty (Capt)
Dorste	Q	Small

Referee—Fishleigh, Umpire, Gifford, both of Ann Arbor. Twenty-five-minute halves. Attendance 1,500.

The cry is now "On to Notre Dame." M. A. C. plays that College next Saturday and it may be that a crowd will accompany the team. M. A. C. has made annual trips to N. D. for six or seven years and has never been able to score on them. The best showing we ever made was in 1903 when they won 11 to 0. Last year the score was 28 to 0.

Previous to the big game on Saturday the seniors and freshmen played a game the latter surprising everyone by holding their opponents down to a scoreless tie, while the sophomores and sub-freshmen played an equally good game, the former winning on a fumbled ball just as time was called. Sweeney crossed the line, goal was kicked and the game stood 6 to 0 for the sophomores. The freshmen-senior game will be played again next Saturday and the winner of the two games will play for the championship.

Y. M. C. A.

Warren L. Rogers, State Student Sec'y of the Y. M. C. A., spent last Wednesday at the College talking over and planning for the work for the year. He will be with us again next Sunday and will address both morning and evening meetings. Mr. Rogers has had a large experience in association work at the University, so he is closely in touch with student life, and this coupled with his exceptional ability as a speaker will make his visit a source of profit and inspiration to the whole College.

The Bible classes are well under way and indications point to a very successful year in Bible study. There seems to be a general improvement throughout the colleges of the state in this department of the

association work; and M. A. C. must keep up her share of the work.

Prof. Rider gave a very instructive talk at the union meeting Sunday night.

SENIOR ENGINEERING SOCIETY.

Mr. E. B. Fisher, president of the Grand Rapids Telephone Co., will address the Senior Engineering Society on the "Commercial Aspect of Telephone Engineering." This talk will be of interest to every engineering student in College, and every one is cordially invited to attend. As yet it is not certain whether he will be here Tuesday or Wednesday. Watch for announcement in the clubs. The meeting will be called for 6:45 in the chapel.

HUNGARIAN ORCHESTRA.

In spite of the disagreeable weather a very large audience gathered at the armory Thursday evening for the first number on our entertainment course. The orchestra consisted of eight members, including the director, and with them was Mr. Schonberger, entertainer. This was certainly an excellent number with which to start our season's entertainments, and judging by the reception tendered the company, every one felt well repaid for attending.

The response to encores was certainly very generous and proved beyond question that every member of the company was thoroughly in love with his work. Mr. Schildkret is surely the right man in the right place, and his music, from the Hungarian to our own national airs, was thoroughly enjoyed. The violin solos were especially good, and the young musician was allowed to retire only after the third selection.

The readings by Mr. Schonberger on "Mr. Dooley on Oratory," and the "Hazing of the Valiant" were well received, he responding to an encore after each.

Judging from this opening number of our course, you have made no mistake in purchasing a season ticket. "Now 'aint that so?"

RESOLUTIONS

Of Columbian Literary Society.
WHEREAS, Our Heavenly Father has thought best to call unto his flock our brother Columbian, Henry H. Crosby, and

WHEREAS, He was an honored and righteous young man, esteemed by all who knew him; be it

Resolved, That we extend our deepest sympathy to the family in their bereavement; and be it further

Resolved, That a copy of this be sent to the family, and one spread on the minutes of our society.

O. I. GREGG,
C. W. EDWARDS,
C. W. LAPWORTH.

MILITARY HOP.

One of the most enjoyable military hops ever given at the College was held at the armory last Friday evening. About 75 couples were present, and most excellent music was furnished by Baker's orchestra. Among those present were Miss Cornelia Fisher, Miss Julia Grant, Hugh Gunnison, '00, Miss Andrews, who was here during the past summer, and Mr. Jean and Miss Erma Brewer, of Owosso, guests of Director and Mrs. Brewer. Several Lansing people were also present. The patrons of the evening were Director and Mrs. Brewer, Instructor and Mrs. Reed and Capt. Fuger.

It is to be regretted that so few uniforms are in evidence at these occasions. Uniforms now seem to be the exception, where in years past they were the rule. It would seem more in keeping with the term by which this hop is known if uniforms were worn by a majority.

ALUMNI.

'83.

Albert W. Mather is foreman of the G. H. Hammond Co. of Chicago, Ill. His present address is Hammond, Ind.

'01.

On Wednesday, Oct. 10, John B. Stewart '01 was united in marriage to Miss Helen Howard Shattuck, at Grandby, Conn. The wedding took place in the Congregational church before a large company of friends and relatives. N. A. McCune '01 acted as "best man."

Mr. and Mrs. Stewart will spend the winter in Washington. The Bureau of Soils prizes "John" very highly. He has the faculty of wresting success out of whatever he undertakes. An important bulletin from his hand is now printing.

'05.

O. B. Burrell is now District Manager for the University Extension Institute of Ann Arbor, with address at 174 Jos. Campau Ave.

Edna Rupert is in charge of a private school in Domestic Science and Domestic Art at Oklahoma City, O. T. Her address is 130 W. Seventh St.

Paulina Raven sends in her subscription and an offering to the Memorial building fund and adds,—"I am not at 'Grass' (S. D.) any longer, only had three different post office addresses since I have been here and expect the fourth in a few months. It keeps coming nearer all the time; is now only six miles away while at first it was twenty.

"This is the third week of school and everything is moving along so nicely. I am more in love with my work here each day. Miss Raven closes with best wishes for "Dear old M. A. C." Her present address is Flora, Walworth Co., S. D.

'06.

After an illness of but five weeks, Henry H. Crosby passed away at his home in Three Oaks, Tuesday morning, Oct. 16, of typhoid fever. The circumstances of his death were sad, as he had left his work in Tenn. to aid in the work at home and take care of an older brother, ill of typhoid, who is still in a critical condition. He was a graduate of the Three Oaks High school, 1902, and the following September entered M. A. C., completing the work for his degree at the close of last winter term. Throughout his college course Mr. Crosby was a prominent Y. M. C. A. man and one with whom it was a pleasure to associate. He had many staunch friends among both students and instructors, who, with the RECORD, extend to the bereaved family sincere sympathy. The funeral was held from the home at three o'clock on Thursday; Instructor Bates, for the Columbians, of which society Mr. Crosby was a member, attending.

THE M. A. C. RECORD.

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

B. A. FAUNCE, MANAGING EDITOR

ASSOCIATE EDITORS:

BEN JEROME, '08

A. GARCINAVA, '08

G. S. VALENTINE, '08

R. G. CARR, '08

A. SOBY, '09

ALEEN RAYNOR, '09

W. D. FRAZER, '09

R. H. MURDAUGH, sp.

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, OCT. 23, 1906.

HORTICULTURAL CLUB.

Prof. L. R. Taft lectured to the Hort. club last evening on Michigan Nurseries and Nursery inspection. The methods of nursery inspection were fully explained as they are carried out by Prof. Taft in this state. The locations of the principal nurseries were pointed out and also nurseries where diseases are found most prevalent. Next Wednesday evening M. L. Dean, who was superintendent of the Michigan Exhibit at the St. Louis Exposition, will give a lecture entitled: "A Comparison of the Horticultural Conditions in Different Sections of the Country." This will probably be one of the best lectures of the term and all interested in horticulture should attend.

RESOLUTIONS

On the death of Henry H. Crosby by the Alpha Zeta Fraternity:

Whereas, The allwise Providence has seen fit to remove from our Brotherhood, our friend and brother, Henry H. Crosby, in the morning and richness of his life; and,

Whereas, Henry H. Crosby, has by his integrity as a student, his honesty, sociability and general interest in all college functions, endeared himself to the whole College community; and,

Whereas, Henry H. Crosby has devoted much of his time while a member of the Alpha Zeta Fraternity to the betterment of, and furtherance of its interests. Be it

Resolved, That in the death of Henry H. Crosby the Michigan Agricultural College loses an alumnus, who had been spared would have brought honor upon his alma mater; the Alpha Zeta Fraternity a generous and sympathetic brother whose personal interests were always second to its interests; and,

Resolved, That the Alpha Zeta Fraternity recognizing as above the sterling qualities of Henry H. Crosby, deeply mourn his loss and offers its sincere condolence to the afflicted family of the deceased; and be it further

Resolved, That a copy of these resolutions be sent to the family of the deceased, to the Alpha Zeta Quarterly and to the M. A. C. RECORD.

COMMITTEE.

FORESTRY CLUB.

At the last meeting of the Forestry Club Oct. 16, Prof. Pettit gave a most interesting talk on "Photography." He explained the camera, discussed lenses, plates, diaphragms, over and under exposures, and gave us a good general idea of the working parts, and manipulation of the instrument. After taking a flash-light of the members, Prof. Pettit showed the method of developing and fixing the plate, and gave formulas for developing solutions, and suggested remedies for over or under exposure. The thirty or more present enjoyed a very instructive and interesting lecture, and Prof. Pettit's next talk on the same subject will surely be well attended.

At the next meeting of the club Mr. Kiefer will tell of personal experiences on the state forest reserve during the past summer. All interested in forestry are cordially invited to be present.

SOILS

Is the name of a new book recently placed in the library. Its author is Dr. E. W. Hilgard, Prof. of Agriculture in the University of California. This book is the most comprehensive one yet published in this country, if not in any country, on this subject, and is a very valuable addition to American agricultural literature. The volume contains about six hundred pages of exceedingly valuable and interesting matter.

Dr. Hilgard is best known as an agricultural chemist, being among the foremost. It is a fact, however, not generally known, that he may be justly considered the pioneer soil physicist of this country, his earlier work antedating that of King.

LECTURE ON SOILS.

The most interesting and suggestive address of the Hon. Milton Whitney, Chief of the Bureau of Soils, Washington, D. C., in the chapel on Thursday afternoon, October 11, hardly commends itself to condensation. The logic was so carefully considered and the disquisition was so closely knit together that it is impossible to give in a resume anything like the substance even of the matter presented.

The first suggestion was that soils are disintegrated rock, but not decomposed minerals. The minerals exist in their original condition although more or less finely divided. Rotation of crops used to be explained on the supposition that each plant disturbed the ratio between the mineral elements of the soil. Fertilizers were supposed to act directly as plant food and thus restore a suitable ratio of the plant food constituents.

Prof. Whitney suggests that soil affords a perfect system for providing plant food for crops for an indefinite period. The solution of finely ground rock is very similar to the solution from the natural soils and it seems that there is enough plant food in the soil to last for many centuries. The whole question which the farmer has to consider in the management of his land hinges upon the proper sanitary condition of the soil. Plants excrete materials which are noxious to themselves and poisonous to certain

other crops that follow. Rotation of crops is explained therefore, on the theory that the excreta of one kind of crop is poisonous to that crop and to certain others. The wise farmer is the one that has found out which crops are not injured by the excreta of certain others. He then follows these other crops by the ones not poisoned by such excreta. It is the function of a fertile soil to convert the excreta of plants rapidly into humus. This is nature's way of cleaning the soil. Cultivation, aeration, barnyard manure and commercial fertilizers aid in this conversion of plant excreta into humus either directly or by putting the soil into physical and chemical condition to do this work. Fertilizers, therefore, act on the soil rather than on plants. We fertilize a soil to rid it of what the previous crop has left rather than to prepare it for the succeeding crop. Fertilizers are to the soil what drugs are to the human system. It is better to keep healthy than to become sick and be cured again by drugs. It would be well therefore, if we could get along without fertilizers but we do not yet know how to treat our soils to avoid their use. Soil fertility can be temporarily impaired but it is indestructible. The soil cannot be exhausted, it is impaired by careless cultivation, by erosion and by improper rotation.

The evidences on which the preceding statements were based were then presented. Most of the work done by the Bureau of Soils or at least a large part of it has been done with aqueous extracts of the soil. In these water cultures it was found that where crops were made to succeed themselves and the yield was thereby greatly reduced, the soil could be restored to its virgin fertility by shaking it up with carbon black or, with pyrogallol. Neither of these materials add nothing in the way of plant food but they do remove the excreta. So manure, especially green manures, when plowed under, do not add much plant food but they do remove the excreta of the previous crop and in that way make a somewhat worn out soil more and more productive. To further prove that soil exhaustion is not due to the removal of plant food it was found that the addition of distilled water to a soil solution which had grown a given crop twice would sometimes increase the fertility of that solution. And so the use of distilled water in making up Knobbe's solution was followed by better crops than where soil extract was used showing that the soil extracts contained principles poisonous to the crop. So boiling this aqueous solution removed the toxic principle and it is possible to distill it into a vessel and secure it in intensified form.

Again, in the long boxes corn was planted in one end and weeds in another. Where a partition separated the two classes of plants they grew luxuriantly and where the partitions were removed and the roots were allowed to intermingle neither produced as good a crop.

So the washings from leaves and from the trunks of trees have proven toxic. Again where seeds were hung by silken threads in a saturated atmosphere they would not germinate. Just as soon as the seeds were allowed to be covered with water thus removing the phosphates thrown off in germination and removing at the same time the other

toxic principles, the seeds germinated.

Many other illustrations and demonstrations were given, all pointing to the inevitable conclusion that the great problem confronting the American farmer is not the abundance of plant food but proper sanitary conditions in the soil.

'05

Clarence Reed sends in his subscription to the RECORD from College Park, Md., where he says he is "connected with the Agricultural College some how or other, it seems." Reed is enjoying his work very much. Says he only gets promoted occasionally, but is already within eight miles of the White House, so feels encouraged.

'04.

S. F. Gates is running for county surveyor of Ionia on the prohibition ticket.

In speaking of inspection of the Baron de Hirsch agricultural school at Woodbine, N. J., the *Jewish Exponent* says: "They inspected the entire place, the factories, the farms and the agricultural schools and found everything in a most satisfactory condition. The school, recently organized under the charge of Mr. Geller, superintendent, and four assistants, is progressing rapidly. Twenty boys will be ready to go out next year, with most promising results. The dormitories have been altered and enlarged. The school building has been entirely renovated, and there is every indication of a very large number of applications for next year."

It has always been the policy of the College to extend the privileges of the library to all persons who have at any time been connected with the institution as student or employee. At a recent meeting of the literary committee the following resolution was passed, extending the same privilege to all persons living in the college neighborhood who may care to avail themselves of it.

Resolved, That any person living adjacent to the college be permitted to draw books from the M. A. C. library, provided he make written application for such privilege and have his application endorsed by two members of the faculty, such endorsers thereby becoming personally liable for any loss the library may sustain through the loan of books to such persons.

The work of taking up and seeding down the road leading from the postoffice to College Hall is nearing completion. The road from Howard Terrace to the Library has been seeded. This leaves the center of the campus entirely free from drives. Concerning this matter, the Board adopted the following recommendation of Mr. Simonds: "All the ground within the area marked red dotted lines on the map should be regarded as a sacred space from which all buildings should forever be excluded." The dotted line spoken of follows the main drive around in front of the Women's Building, Library, Williams' Hall, Chemical Building, and crosses by Abbot to the postoffice. It is the purpose to have no drives nor buildings within this area with the single exception of College Hall.

Miss Wellman.—"Is any one familiar with the 'Knocking on the gate' in Mac Beth."

Bright Student.—"Yes, ma'am. Mac Beth wrote it."

\$1.00

FOR

Safety Razor

WITH 12 BLADES

It is a Winner and we stand back of Every One.

NORTONS HARDWARE

111 Wash. Ave. South.

EVERY KIND OF

FURNITURE

FOR YOUR ROOM.

Cots Folding Beds
Mattresses
Book Cases Desks

All Goods Delivered Free.

M. J. & B. M. Buck.

The Man

we're after is the man who usually patronizes a first class high priced tailor—the man who gives up from thirty to sixty dollars for an overcoat—that this overcoat line is designed for.

We know

the Cloth, Style and Making is equal to that of any reputable tailor and it is our business to see that you shall have a perfect fit. Everything being equal wherein lies the difference—except price? We carry all kinds of up-to-date furnishings for College Men.

Elgin Mifflin.

THE JEWETT & KNAPP STORE

Where you will find the largest and most complete stock of

Women's Misses' and Children's Ready-to-wear Garments, Knit Underwear, Hosiery, Gloves and Ribbons. All the new things in Laces, Embroideries, and Wash Goods, : : :
See our New Silks, Dress Goods and Trimmings. If you want an Exclusive Gown or Suit, go to Lansing's Reliable Store. : : : :

JEWETT & KNAPP

220-222 AND 224 WASHINGTON AVENUE SOUTH, LANSING, MICHIGAN.


A SMART STYLE

\$3.50

A PAIR

GUN METAL CALF VICI KID PATENT COLT LEATHERS

TO BE SEEN AT
C. D. WOODBURY'S
HOLLISTER - BLOCK



ABOUT THE CAMPUS.

The branch tunnel is being put in to the Engineering building.

W. J. Wright '04 and wife called on college friends Friday of last week.

R. P. Heald, '09, spent a couple of days at his home in Midland last week.

Mrs. C. D. Smith left Friday for a visit at her old home in New York state.

H. A. Wright, with '07, is now in attendance at the School of Mines, Houghton.

Prof. Pettit was at Marshall on Oct. 18 looking after reported insect infestations.

A. H. Crosby, '09, attended the funeral of his cousin, H. H. Crosby, on last Thursday.

Congressman Loud and his brother, E. L. Loud, of Au Sable visited the College Friday of last week.

Miss Ethel Goodhue, of Prof. Kedzie's office is again at her post after an illness of a couple of weeks.

The forest nursery has flourished better than ever the past summer, and has been admired by many visitors.

Charles G. Woodbury, now of Purdue, was called home the past week to attend the funeral of his grandfather.

Wayne W. Ricks, sub-freshman has been obliged to drop out of College on account of weak eyes. His home is Fennville.

Publicity was too much for "the

owl." He died one day the past week and will be mounted and placed in the museum.

Over 150 members are now enrolled for chorus work and a very satisfactory rehearsal was held last Monday evening.

Prof. Shaw spent several days the past week in various parts of the state, purchasing breeding stock for his department.

Work on the new Y. M. C. A. hand-book is under way and it is expected that same will be ready for distribution within the week.

Charlie Hurry, the popular young Y. M. C. A. man in Michigan, will be at M. A. C. on Nov. 11, and will conduct chapel exercises on that date.

The Thursday evening meeting of the Y. W. C. A. was a song service. Every girl joined heartily in the singing. Miss Mary Allen conducted the meeting.

D. J. Crosby, '93, of the Department of Agriculture, reached M. A. C. in time to see the last touchdown Saturday and spent Sunday and Monday with friends.

Warren L. Rogers, state secretary of the Y. M. C. A., will speak in the chapel Sunday morning. It was found necessary to change the date of his address from Oct. 21 to 28.

It has been decided to leave the matter of the memorial building over until next spring at which time the question of the possibility

of raising the required amount will be brought up.

The Botanical Department is in receipt of the first installment of plants marked by Dr. Beal during the summer. They are from the botanic garden of Smith College, Northampton, Mass.

W. H. Anderson with '99 visited Mr. Newman and other friends on the grounds the past week. Mr. Anderson is testing chemist in charge of the Marquette Range of the U. S. Steel Corporation.

M. A. C. will debate Ypsi. again this year, but the question has not yet been selected. Remember the crowd our opponents furnished last year and let us plan to have M. A. C. as well represented this.

O. W. Fairbanks, '09, was called to his home Thursday evening of last week on account of an accident to his father. As we go to press news comes of the death of Mr. Fairbanks at his home, Holland.

The trees on the campus present a very pretty sight just now on account of the coloring. It is feared, however, that because of the recent severe frost the leaves will be beaten off with the first hard rain.

Pretty Steep.—Prof. K. in senior English—"How steep a hill will one of those rack railways, ninety degrees?

Angell—"They generally take an elevator for ninety degrees."

The continued pleasant weather pleases the contractors on the new engineering building. Work on

the third story has been started, and it is expected that the building will be ready for the roof by Dec. 1.

Among those at Saturday's game were noticed—H. J. Schneider, '04, L. I. Graham, with '06, Cornelia Fisher, with '07, Hugh Gunnison, '00, S. L. Christianson, with '00, Jean Bliss sp. '04, Bessie Kirby, sp. '05.

There will be a meeting of all dairy students tomorrow, (Wednesday) evening at 6:30, in the class room, second floor of Dairy Building. This meeting was postponed last week on account of the mass meeting.

Mr. A. Anderson of Hubbardston has been employed as assistant in the Farm Mechanics department. He will have charge of the instruction in the forge shop and also do all repair work and horse shoeing for the college.

News was received last week of the death of Miss Alice Cimmer's ('00) mother. Her father died only a short time ago, so this last grief is doubly hard to bear. Miss Cimmer was for some time after graduation assistant librarian.

Little Gertrude Babcock gave a party Friday evening, 4:30 to 6:00, to fifty of her girl friends. After a merry hour with games the guests were escorted to the dining room, where refreshments were served. This is the season for autumn leaves and jack-o-lanterns, and these constituted the decorations. The happy little girls parted reluctantly from their hostess at 6:00.

Prof. Smith attended the inaugural ceremony of Pres. K. L. Butterfield at the Massachusetts Agricultural College on the 17 inst. He will remain in the east three or four weeks and study the dairy interests of New England.

It was thought that surely we would be able to publish a list of the 1906 class in this week's RECORD, but the list is a long one and it takes time to secure all addresses. We shall keep working and as soon as the list is complete same will be published.

Quite a number of our junior and senior hort. students are planning to attend the meeting of the State Horticultural Society in Benton Harbor, Dec. 13, 14. They will probably compete for the prizes offered by the Society for identifying and judging varieties of fruits.

In addition to the eight weeks' course in fruit culture to be given this winter, a two weeks' course will also be offered to those already engaged in practical work. This is to be given during the last two weeks of the regular eight weeks' course.

It is expected that a new combination traction engine and road roller will soon be purchased by the College. The engine will be used for threshing purposes, filling silos, etc., while the roller will be used on the new road about to be built, for demonstration work with the farm mechanic department, and in various other ways.

The State Teachers' Association-Institute at Battle Creek, Oct. 25-27, is under the joint management of the State Teachers' Association and the Department of Public Instruction. The institute law relating to county institutes will apply, and teachers may close their schools and attend this meeting without loss of their pay.

Miss Gilchrist is well established in her work at the University and is enjoying same very much. Her work is along the line of botany and psychology. She is meeting many old friends and is desirous that any M. A. C. people who happen to be in Ann Arbor surely call upon her. She expects to be at M. A. C. for the Thanksgiving vacation.

The Union Literary Society gave their first party of the year Friday night, Oct. 12. The rooms were very simply and tastefully decorated with plants and flowers. Director and Mrs. Brewer kindly acted as chaperons for about thirty couples. The refreshments consisted of chocolate and wafers. Music was furnished by Parker.

The change in chapel exercises seems to be popular with the student body. The exercises, now held from 9:50 to 10:10 vary each day. Sometimes it is a short interesting talk by a member of the faculty or some outsider; sometimes of devotional nature, and at other times singing of hymns and college songs occupies the entire time.

The Hort. Dept. has purchased 3000 strawberry plants started in various ways. These will be used for experiments in comparing the different methods of forcing the berries, an industry which is just now receiving a great deal of attention in this country. Mr. McHatten will continue his experiments with cross pollenization under glass.

The report of the Hesperian party was not received in time for publication last week. The party was held in the armory Oct. 13, which was tastefully decorated the arrangement furnishing many cozy corners. These consisted of camp fires, corn shocks, etc., while autumn leaves were much in evidence. Baker's orchestra furnished music, Director and Mrs. Brewer acting as chaperons.

The Hort. Club are expecting two very interesting meetings on October 24 and 31. M. L. Dean, formerly of the Hort. Department and also superintendent of Michigan fruit exhibit at St. Louis, will give his impressions concerning the relative value of different portions of the state for producing fruit tomorrow evening. On October 31 Hon. C. W. Garfield, of Grand Rapids, will speak concerning the work in horticulture of our noted alumnus, Prof. L. H. Bailey.

Mr. B. F. Hedrick, father of Profs. W. O. and U. P. Hedrick, died at his home, east of the College, on last Tuesday morning of heart trouble. He had been ill but a few days, and the news of his death came as a surprise. The funeral was held from the home Thursday afternoon at 3 o'clock, and interment made at Mt. Hope. Beside a wife, seven children survive him—four girls and three boys—all of whom were here for the funeral services.

The stone crusher has been set near the site of the old beef barn and the work of crushing the stone formerly used for foundation of the above barn, was begun yesterday. Stone is also being hauled from different portions of the campus and when properly ground will be used to build the road extending from the north-west corner of the library around to Howard Terrace. If enough stone are left it will be extended south and west to Williams Hall.

This will not be strictly a macadam road, but the stone will simply be used for capping the roads we already have.

The juniors will make their annual visit to Chicago this week, leaving at midnight Wednesday and arrive in Chicago about 7:00 Thursday morning and spend three busy days and nights in the Windy City. The list of plants which the party hope to visit include the following: Ill. Steel Works in South Chicago; International Harvester Works; Pullman Car Co's Works; The Chicago Edison Cos. Harrison St. and Fisk St. Station power houses; Metropolitan Elevated Cos. power house; Chicago Pumping Stations; Allis Chalmers Works; Rolling Lift Bridges and the Machinery Market on the west side. A feature of the trip will be a ride on a tug out to the intakes where the water supply is taken in from the lake. The party will stop at the Palmer House and will include, Prof. Sawyer, Prof. Babcock and Instrs. Polson and Chappelle.

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.
GOTTIEB REUTER,
Washington Ave. South.



AND ALL OTHER KINDS OF
WATCHES, CLOCKS, JEWELRY
Repairing in a workman-like manner.
H. P. PIPER Will be at the M. A. C. Book Store from 4 to 6 p. m. to receive and deliver work.
All Work Warranted.

CALL ON—
LAWRENCE & VANBUREN PRINTING CO.
WHEN IN NEED OF
DANCE PROGRAMS or
SOCIETY PRINTING.
122 Ottawa St. E.

Stalker Prints
"Swell" Dance Programs
Fine Stationery
and other good things.
117 Michigan Avenue West
Ground Floor.

VISIT
Cameron & Arbaugh Co's
Big Dept. Store
Ladies' Suits, Cloaks and Furs
Men's Fine Clothing
CARPETS, DRAPERIES, FURNITURE

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. Up-to-Date Styles.

BOOK BINDERS
G. E. 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.

W. AGENVOROD & CO.—Bookbinders, Blank-book Makers, 116-118 Ottawa St. E.

BOOTS AND SHOES.
C. D. WOODBURY.—Boots and Shoes, We shoe the students. See ad.

CLOTHING.
L. OUIS BECK.—Clothier, Gents' Furnishings, Hats and Caps. 112 Washington Ave. North.

CROCKERY AND GLASSWARE.
H. 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 68.
J. E. STOFFER, D. D. S. Office 105 Washington Ave. S. Citizens' Phone 1049. Former M. A. C. student.

N. H. MOORE, D. D. S. Office 411-13 Hollister Building, Lansing, Mich. Citizens phone 475.
R. W. MORSE, D. D. S. Hollister Block, Room 517. Citizens Phone 52, Bell Phone 396.

D. E. PARMELEE, Dentist, 117½ Washington Ave. S., Lansing, Michigan. Citizens' Phone, office 275; residence, 261.

DRUGGISTS.
R. OUSER'S CAPITAL DRUG STORE. Up to date. Corner store. Opposite Hollister Block.
R. OBINSON DRUG CO., successors to Alsdorf & Son, Drugs and Druggists' Sundries. 102 Washington Ave. N.

DRY GOODS.
T. HE JEWETT & KNAPP STORE. Dry Goods. 222-224 Washington Ave. S.

ELECTRICAL SUPPLIES.
C. APITOL ELECTRIC CO. Electrical Supplies, Telegraph Instruments and Telephones. 11 Mich. Ave., E.

FURNISHING GOODS.
E. LGIN 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.
O. RDER your hacks for parties at Carr's Hack Line. Livery in connection. 410 Washington Ave. N.

HARDWARE, STOVES AND TINWARE.
N. ORTON'S HARDWARE—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

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

M. A. C. Real Estate Agency. All kinds of real estate for sale or rent. FIRE AND LIFE INSURANCE. Students properly insured in dormitories and private houses at lowest rates. Office at College Grocery Building.

JEWELERS.
C. HAS. A. PIELLA. Jeweler and Optician, 121 Washington Ave. N., Lansing, Mich.
J. HEATH. Practical Jeweler. 112 Washington Ave. south.

LAUNDRY.
T. HE AMERICAN LAUNDRY solicits a share of your patronage. Remember the number, 309 Washington Ave., S. New Phone No. 420. Julia Findley & Edwin Lewis, Props. S. W. Doty and I. D. Smith, College Age its.

MANICURE AND HAIRDRESSING
M. RS. O. T. CASE—Manicure and Hairdressing Parlors. Ma-querade Wigs for Rent. Switches made of cut hair or combings. The France-American Hygienic Toilet Requisites a specialty. New phone 118. 222½ Washington Ave. S., up stairs.

MUSIC, PIANOS, ETC.
G. RINNELL BROS. Pianos, Organs and everything in the line of music, 219 Washington Ave. N.

M. R. and MRS. GEO. O. CLARK. Violinist and Pianist. Cit. phone 295. Bell phone 75 112 Hosmer St. S. Lansing Mich.

OCULISTS.
C. HAS. 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. Rooms 203-204 Prudden Block.

J. OSEPH FOSTER, M. D., Eye, Ear, Nose and Throat. Hours 9 to 12 a. m.; 2 to 4 p. m.; Sundays, 12 to 1; Evening 7 to 8. Corner Allegan St. and Capitol Ave., Lansing. Both phones.

PHYSICIANS.
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. New 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.
S. HIELDS & LEADLEY, Plumbing and Heating. 300 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.