

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 9.

LANSING, MICHIGAN, TUESDAY, OCT. 20, 1903.

No. 5

FOOTBALL.

M. A. C. II.—KALAMAZOO O.

The second game for the inter-collegiate championship was won by M. A. C., after a very hard contest. Kalamazoo outweighed M. A. C. about 10 pounds to the man. But they were too slow in getting started and were thus prevented from using their weight to advantage. Line breaking was their style throughout while M. A. C. resorted to end plays.

The game started by M. A. C.'s kicking off. Kalamazoo carried the ball down the field, but were held for downs before they became dangerous. End runs by Millar, Hahn and McKenna brought the ball to Kalamazoo's six-yard line, and here Doty carried it over for a touchdown. On account of the strong wind the attempt for goal failed. The ball changed hands frequently for the remainder of the half, and at its close was on Kalamazoo's 8-yard line. Time saved Kalamazoo from being scored on.

In the second half, Millar caught the ball and returned it five yards. Rapid end runs were now made. Millar carried it 20 yards and McKenna 30 and 15 respectively. On Kalamazoo's 12-yard line Small made a quarterback kick which McKenna caught for a touchdown. Kalamazoo now played in earnest. A penalty for off side playing brought the ball to our 8-yard line. Line plays planted the oval within 6 inches of our goal line. Here Decker plunged through the line, tackled the quarterback and caused a fumble which Bell captured. M. A. C. then carried the ball out of this dangerous place and were rapidly advancing it towards Kalamazoo's goal when time was called.

Kalamazoo.	Position.	M. A. C.
Hurd	Left end	Millar
Clapp	Left tackle	Bell (capt.)
Bowen		
Hamilton	Left guard	Case
Williams	Center	Decker
Moore	Right guard	Lampke
Hamilton		
Spaulding	Right tackle	Kratz
Johnson	Right end	Ashley
Carleton	Quarter	Small
Smith	Left half	Hahn
Post	Right half	McKenna
Palmer (capt.)	Fullback	Doty
Substitute, Giddings.	Touchdowns—	
Doty, McKenna.	Referee and umpire—	
Schule.	Kick goal—	McKenna.
Official linesmen—	Hopkins, M. A. C.; Tucker, Kalamazoo.	Linesmen—Swales, M. A. C.; Upjohn, Kalamazoo.
Timers—	Shedd, M. A. C.; Robinson, Kalamazoo.	Time of halves—25 and 20 minutes.

NOTES ON THE GAME.

M. A. C. put up an excellent defense.

The game was a plucky one throughout. Every man played for all there was in him.

Decker played an exceedingly strong game. No fumbles were made from center to quarterback to backs.

No one was seriously injured.

The game was clean throughout.

Quick charging by M. A. C.'s line and backs blocked Kazoo's plays.

After Kalamazoo had once started she was hard to stop.

This was the first time Kalamazoo had been scored on.

The attendance was 750.

The sophomore—junior game proved a very interesting one. Both sides put up an excellent game. The sophomores were victorious by a score of 16 to 0.

The U. of M. all-freshmen game next Saturday promises to be a hard one. They played Albion 0 to 0.

Y. M. C. A.

The subject for the Thursday evening prayer meeting was: "Christ as host." Mr. Bennett led the discussion. The subject for the meeting a week ago was, "Christ as Guest." The discussions on these topics were interesting and profitable for all present.

It is greatly desired that all members of the Y. M. C. A. be present at the Thursday evening meetings.

Chapel services Sunday morning were conducted by Rev. Edwards. Text John 15:24, "If I had not done among them the works which none other man did, they had not had sin; but now have they both seen and hated both me and my father."

The services were well attended and all enjoyed the discussion.

The Sunday evening meeting of the Y. W. and Y. M. C. A. was led by Miss Maud Gilchrist.

The meeting was well attended, and all report a pleasant time. Let us so fill the chapel room that the armory will have to be made use of for all public services.

The Bible classes are now fairly well organized. All those desiring to take any Bible work see the general secretary, office in Y. M. C. A. room, Williams Hall.

We ought to have at least two hundred in Bible classes, while there are less than a hundred at present. Will you help raise the enrollment?

LIBRARY.

The following books have been added to the library since Sept. 25: Physical Chemistry, C. H. Van Deventer.

Statics by algebraic and static methods, L. J. Johnson.

Electricity and magnetism, Foster and Porter.

Principal species of wood, Chas. H. Snow.

Physics of agriculture, F. H. King.

The steam turbine, R. M. Nielson.

How crops grow, S. W. Johnson.

How crops feed, S. W. Johnson.

Telegraphy, Preece and Sive-wright.

Treatise on hydraulics, Merriman.

American merchant ships and sailors, W. J. Abbot.

Studies in the evolution of industrial society, Ely.

American merchant marine, W. L. Marvin.

Lakes of North America, Israel Russell.

Glaciers of North America, Israel Russell.

Principles of American forestry, D. B. Green.

Flora of northern U. S., N. C. Britton.

Rise and Progress of the Standard Oil Co., G. H. Montague.

Herbart and the Herbartians, Chas. De Garmo.

Role of diffusion and osmotic pressure in plants, B. Livingston.

History of Virginia conventions, Brenaman.

Natural woods and how to finish them, Berry Bros.

A large number of geological and other reports have also been added as well as several books of minor interest.

FARMERS' INSTITUTES.

Prof. Taft has made arrangements for the following institutes:

Iron River, November 4 and 5.

Ewing, November 6 and 7.

Baraga, November 9 and 10.

Houghton, November 11 and 12.

Stephenson, November 13 and 14.

The instructors in this series will be E. A. Croman, of Grass Lake, A. P. Gray of Traverse City and Mrs. F. D. Saunders of Rockford.

The second series is as follows:

Wilson, November 3 and 4.

Mio, November, 6 and 7.

Pickford, November 10 and 11.

Manistique, November 12 and 13.

Instructors will be P. B. Reynolds of Owosso, U. K. Potter of Bancroft and Mrs. Ella E. Rockwood of Lansing. L. M. Geismar will also be present at the Manistique institute.

One day institutes will be held in the following places:

Sault Ste. Marie, November 9.

Rosedale, November 12.

Dafer, November 13.

Rudyard, November 14.

U. K. Potter will conduct these institutes.

THE NEW SOCIETY.

At last Friday's meeting committees were appointed to draft a constitution and solicit members. Representatives of all classes in the college were present and the prospects are good for a strong literary society. The membership will not be limited and all are asked to join. It is not the idea that this society shall prevent students from joining societies already organized. Its object is to secure for its members the same opportunities along literary lines that are enjoyed by members of the present societies and to offer as much along social lines as shall be possible. The next meeting will be held in the armory on Saturday evening at 7:30. All are urged to be present for at this meeting a constitution will be adopted and officers elected.

LOST.

Turquoise ring set in pearls. Will finder please drop me a postal card, L. Netzorg, 116 Wells.

ALUMNI.

'68.

John Swift is engaged in surveying summer resorts, and is doing a great deal of work along landscape gardening and architecture in northern Michigan.

'82.

Jas. L. McClear, for many years a practicing attorney at Menominee, Michigan, has recently moved to Coeur d'Alene, Idaho, where he will continue in general law practice.

'83.

C. M. Weed, professor of Zoology and Entomology in the New Hampshire College of Agriculture and Mechanic Arts, is editor of the department of ornamental gardening of *The House Beautiful*.

Geo. E. Lawson, cashier of the People's Savings Bank of Detroit, was recently elected by the State Bankers' Association as chairman of the delegation to the national association.

'84.

Professor C. P. Gillette, entomologist of the Agricultural college, received today the appointment of chief entomologist at the World's fair. Mr. Gillette is a graduate of the Michigan Agricultural College, class of '84. After graduating he took special work at Champaign, Ill., and later returned as assistant in entomology for his alma mater. At the end of the first year he was given the degree of M. S. He accepted in 1888 the position of entomologist at the Iowa Agricultural College, Ames, which place he resigned to accept the chair of entomology and zoology at the Colorado Agricultural College. He was the first man ever employed here as entomologist and is now one of the oldest members of the experiment station staff. He has been actively identified with the fruitmen's interests all over the state for the past twelve years and is well known in every farming community as a lecturer and as a man who has done more than anyone else in Colorado to scientifically abolish insect pests of all kinds. The appointment came very much as a surprise to Professor Gillette. He has not as yet made any plans for the new work. He will not, however, find it necessary to resign at the college, although it may be necessary for him to take a leave of absence during the coming spring and summer. The Agricultural College people are highly pleased with the appointment and feel that one member of the faculty being called to serve as state engineer and another to serve the government as entomologist is a fair record for six months.

With '84.

Hon. Fred M. Warner, who is now serving his second term as secretary of state, is very generally and favorably mentioned by the press

(Continued on page 2.)

THE M. A. C. RECORD.

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TUESDAY, OCT. 20, 1903.

LOST.

An Hesperian society pin was lost on the campus between college hall and the botanical laboratory. Finder will confer a great favor by leaving it at the President's office.

Y. W. C. A.

The Thursday evening Y. W. C. A. prayer meeting was conducted by Miss Bessie Cordley. The Bible lesson was from Luke X, 25-38. The leader emphasized the need of loyalty to Christ in our lives here. At the close of the devotional meeting, a short business meeting was held, at which thirteen new active members and twelve associate were received.

ALUMNI.

(Continued from page one)

as a probable candidate for the nomination for governor on the next republican state ticket. Mr. Warner has served the state faithfully in his present position, received a tremendous vote at the last election and is in every way well qualified for the office of governor. He is well known as a farmer, cheese manufacturer and business man. His success in the political field has been no less marked than along the above named lines. He is well acquainted with the needs of the state, is a man of integrity and firmness and would make an excellent governor.

'85.

H. T. French, professor of agriculture in the Idaho Agricultural College, is president of the Inland Empire Fair Association which recently held a very successful fair at Moscow, Idaho.

'93.

Prof. U. P. Hedrick is the author of a laboratory manual in systematic pomology. It treats of fruit description, nomenclature and classification and reduces the study of pomology to a science. The manual is of special value to students of horticulture and supplies a much needed want at M. A. C. Horticulturists throughout the state will find it an excellent medium for identification

and comparison of different fruits. It is on sale at the co-operative store at M. A. C.

'95.

Guy L. Stewart is assistant industrial agent, in charge of agricultural interests, for the Baltimore and Ohio Railroad Company. His present address is Parkersburg, W. Va.

Thorn Smith, chemist of the Ducktown Sulphur, Copper and Iron Co., of Isabella, Tenn., sent in some interesting personals. He is still enjoying his work and advises everybody in general to drink beer sparingly, keep on hand a good supply of coal and thus insure an early death and a corpulent body. Ye editor takes it for granted that Mr. Smith speaks from experience.

'96-'98 Sp.

Donald MacArthur has charge of a large dairy at Haskell Institute, Lawrence, Kansas. His work is very pleasant and he has made it a success.

'98.

Fred Williams was married to Elizabeth Hastings of Conway, Mich., on Oct. 14. The M. A. C. RECORD extends congratulations.

With '98.

Otis R. Cole has received an appointment as first lieutenant U. S. Regulars and is stationed in the Philippine Islands. His promotion is the result of an examination.

'99.

Francis E. West, professor of chemistry at Alma College, is erecting a fine residence near the campus.

S. L. Ingerson recently visited the College for a few days. He expected to do some work on sugar beets but secured a position in the Alma factory and left at once to enter upon his work.

E. A. Gangies is with the Westinghouse Co. of Pittsburg, Pa.

Macy Lapham, soil expert of the U. S. Dept. of Agriculture, has his headquarters at Sacramento, Cal. He is enjoying his work and can be addressed at No. 1616, 15th St.

'00.

E. W. Ranney is managing a farm of 500 acres at Belding. Besides this he travels for the Ranney Refrigerator Co. and works in their general office. At odd times he takes care of the baby and McCue says he has almost become nocturnal in his habits.

C. W. Bale, who is drafting for the Detroit Shipbuilding Company, recently visited M. A. C. He is enjoying his work and has a happy home.

'01.

Ralph Lickley is drafting for the Southern R. R., in the office at Washington, D. C.

William Treadwell spent Sunday at M. A. C. He is managing a fine farm near Ann Arbor.

R. S. Northrup, instructor in horticulture at Cornell University, writes that his work is very pleasant. His address is 310 Huestis St.

Roswell A. Whitney was married to Clara M. Nichols of Grand Rapids, on Saturday, October 17. They will be at home, Jamestown, Mich., after December 1. M. A. C., friends wish them much joy.

'02.

O. L. Ayrs is engaged in soil surveying at Dover, Delaware, under

the direction of the U. S. Department of Agriculture.

'02.

Geo. Strobel is with the General Electric Co., of Schenectady, New York.

M. B. Stevens is studying forage plants in Florida. He is employed in U. S. Department of Agriculture, Bureau of Agristology, and will soon return to Washington.

With '02.

Lee Landon, who is in the employ of the American Tin Plate Co. of Elmwood, Ind., visited his mother last week.

'03.

Glenn C. Sevey is on the editorial staff of the Phelps Publishing Co., which edits the *Orange Judd Farmer*, *American Agriculturist* and *New England Farmer*. He is enjoying his work and can be addressed at 52 Armory St., Springfield, Mass.

Wm. C. Armstrong is working for the Illinois Central R. R. in the buildings and bridge department. His address is 30 Elm St., Cairo, Ill.

F. C. Reimer, instructor in horticulture in the Florida Agricultural College at Lake City, Fla., says in a recent letter to Prof. U. P. Hedrick that his work is proving to be very pleasant. He speaks of the climate in terms that remind one of the classic descriptions of the lower regions by some orthodox divine.

Mr. F. J. Phillips is in the Bureau of Forestry and writes from Arlington, Oregon, that since graduation he has been assigned to work in Michigan, Minnesota, Nebraska, Oregon and Washington. At time of writing he had just returned from

a trip across the Pacific Forest Reserve over the summit of the wildest region in the Cascades. He has visited the great lumber mills in Portland and finds them much the same as the Michigan mills but furnished with heavier machinery. Mr. Phillips mentions having been asked to write a report on several subjects, one of them being "The Economic Value of Dune Sand." About a month ago Mr. Phillips was placed in charge of the party which he considers something of a compliment not only to himself but to M. A. C. for there is one Cornell man in the party. The party will remain in the field until about the middle of December. At time of writing the party was about to start on a month's trip into the Washington woods on the Cascade mountains.

With '05.

Clarence Brown has charge of the Fort Custer Reservation in Montana. At the present time he is engaged in removing the old buildings from this historic spot.

With '08.

O. F. Pullen of Allegan was unexpectedly called home on Thursday on account of his father's serious injury. He expects to return to college next year.

All students who are taking the course in forestry or are interested in any way in a forestry club will please meet in the dairy building on Wednesday, Oct. 21, at 6:30 p. m.

Prof. Taft has nearly finished his work inspecting orchards and nurseries throughout the state. On his last trip he visited Ottawa, Allegan, Ionia, and Van Buren counties, and spent one day at the South Haven station.

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ABOUT THE CAMPUS.

Mr. and Mrs. J. L. Wright of Exeter, Mich., have been visiting Mr. and Mr. F. W. Robison.

Miss Elvine Armstrong is assisting in the library, taking the place made vacant by the resignation of Mr. Patriarche.

R. C. Benner, instructor in chemistry at M. A. C. last year, is now in the chemical department of the University of Wisconsin.

Miss Gunnison, '05, has been home ill with appendicitis. Her college friends are glad to learn that she is gradually improving.

Mr. B. Wermuth, secretary of the Y. M. C. A., is getting out a college directory. It will be ready for distribution the latter part of the week.

Miss Maude Gilchrist, dean of the woman's department, has been appointed supervisor of the department of domestic science and art at the St. Louis exposition.

In the library can be found good paintings of Dr. R. C. Kedzie, Dr. Abbott, Judge Wells and Franklin Wells; also a bust of ex-president Willits presented by the Delta Tau Delta fraternity.

There is a decided improvement in the College water supply since the new pipes have been put in. The germ content has been reduced over 90 per cent. The water is at present comparatively pure. Some of the wells in Collegeville indicate surface contamination.

Prof. Holdsworth's class in descriptive geometry is constructing

models representing the work in this subject. Some very fine ones are now on exhibition. Among these might be mentioned a plane tangent to a cone and a prism intersecting a sphere.

The Phi Delta society recently gave a party to its friends. There was a large attendance and all had a very enjoyable time. The rooms were elaborately decorated with palms and bunting. Mr. Perry of Lansing furnished the music while Prof. and Miss Vedder acted as chaperones.

Judge M. Brown, of Big Rapids, was a caller at the College last Thursday. Judge Brown is one of the foremost attorneys of the state, and was in Lansing to examine candidates for admission to the bar. The judge is much interested in agricultural lines, especially live stock.

A large number of to called Acquatic separators have been sold throughout the state. They are cheap and are represented to be first class. Mr. Michels, instructor in dairying, has conducted extensive tests and has found that nearly one-third of the butter fat is lost by these separators.

Due to the crowded condition of the school room of the M. A. C. public school the board thought best to make a change. Grades seven and eight inclusive, attend school from 8:30 to 11:45 a. m. The pupils in these grades study at home in the afternoon. Grades three and four are in school from 1:15 until 4:00; grades one and two from 1:15 until 3:30. A trial of the

plan is to be made for one month and if it proves satisfactory, is to be permanently adopted.

Two pigs were recently sent to Dr. Marshall to be tested. A post-mortem examination revealed intestinal ulcers. Experiments with the germ are now in progress. Five rabbits were inoculated and indications of disease are already made manifest. The disease is hog cholera, one which causes a loss of thousands of dollars every year.

The botanical garden contains about 2,000 species of plants. The different orders are all by themselves and the beds bear a label giving a few of the principal facts. Each species is also supplied with a label. This makes the garden a very interesting place to visit and very instructive to the lover of botany or plants in general.

Augusts Valenzuela comes to M. A. C. for mechanical engineering from Bogota, Columbia. His father has a large coffee plantation, and is also president of the leading bank in Bogota. Senior Valenzuela attended the public schools of Bogota and also spent several years in the Colegio del Rosario Major. He expects to remain here five years.

Jesse J. Myers, instructor in zoology, has published in a very neat pamphlet a description of an electric thermostat. The subject matter was originally published in the *Journal of Applied Microscopy and Laboratory Methods*, Vol. 6, No. 8. The device is especially adapted to par-

affin baths, but can be used in connection with incubators and ovens if modified. It does away with the necessity and danger of gas and shows considerable mechanical skill as well as a good understanding of electricity.

Director Brewer has posted the following schedule for class games.

Oct. 17—Juniors vs. Sophomores.

Oct. 19—Sub-Freshmen vs. Freshmen.

Oct. 24—Losers of above two games.

Oct. 31—Seniors vs. winners of first game.

Nov. 7—Winners of second vs. winners of third game.

Nov. 14—Winners of fourth vs. winners of fifth.

Each class has organized and the different teams are practicing hard. Some strong players are out and the games should furnish good material for next season.

The campus consists of about 100 acres, beautifully laid out and well cared for. About 600 different species of trees and shrubs are found. Nature and art have combined to make it one of the most beautiful campuses in the United States. October is especially lavish in her decorations. The bright blue skies, the green grass, the yellow, crimson and variegated colors of the foliage make the scenery beautiful indeed. Combine with this the ripe pumpkin, the tempting apple, the lowing herd, busy and cheerful people and you have a veritable paradise on earth. Don't talk of sombre, silent, death-like fall.

Under the watchful eye of its genial friend Mr. Gunson, the Hesperian Society held its first eleven o'clock party of the term. As usual dancing was the main feature of the evening, but to the tune of the latest airs, rendered by Mr. Robinson, the sons of Old Hesperus and their friends made merry until the watch of Mr. Gunson (a little fast, by the way) proclaimed eleven o'clock and all out. The society was glad to welcome a few of its alumni who were making a short visit at M. A. C.

In a letter to Prof. Vedder, J. W. Beardsley, Consulting Engineer of the Bureau of Engineering of the Philippine Islands, writes as follows: "There is a considerable demand for engineers in the Philippines. Existing conditions render promotions rapid for the right class of men. Harbor and river improvements, construction of highways and railroads, electrical development of water powers, electric roads, drainage, sewer and waterworks problems, all have to be worked out. Salary for recent graduates is generally about \$1200 to \$1400 per annum. Experienced men get \$1800 at entrance while experts receive as high as \$4000. If recent graduates of your institution are desirous of investigating this field, I would be pleased to have this information placed before them. Application should be made to the Civil Service Commission, Washington, D. C.

The following M. A. C. men attended the meeting of American Pomological Society recently held in Boston:

A. G. Gulley '68, C. W. Garfield '70, L. H. Bailey '82, H. W. Collingwood '83, W. A. Taylor '88, W. K. Munson '88, H. E. Weed '89, K. L. Butterfield '91, U. P. Hedrick '93, W. A. Paddock '93, C. B. Smith '94, G. L. Stewart '95, C. P. Close '95, C. F. Austin '99. A. G. Gulley, K. L. Butterfield, H. W. Collingwood, W. K. Munson, C. W. Garfield and Prof. Taft were on the program. Mr. Garfield was elected vice president and Mr. Taylor secretary. The meeting was largely attended and proved very interesting. M. A. C. had a large exhibit, and won six silver medals, the highest award that was made. Among the interesting exhibits was a collection of 135 varieties of seedling apples from Minnesota, all of which were good, and more than half were excellent. 290 trees had been started from seeds eight years ago, 260 of which bore fruit this year.

The visits of inspection in charge of the mechanical department are unique in method and very interesting from an educational standpoint. Observation and experience are the two great factors in modern education and both are receiving careful attention. Four hours are spent in this work every Saturday. Notes and sketches are made about the different things seen. The visits extend over the fall term and include the shops and factories in the city. The following is a sample of the visit to the foundry:

Students will observe and report on the following:

1. Sand. 2. Flask and names of parts: Cope, Cheek, Nowel, Three-part Flask. 3. Moulders' Tools: Rammer, Riddle, Slicks, Lifters, Vents, Trowels, Soft Brush, Camel Hair Brush, Gate Cutter, Clamping Iron. 4. Facings. 5. Clamps. 6. Follow Board and Match Board.

7. Snap Bench. 8. Cores and Core Boxes. 9. Core Oven. 10. Cupola—the Lining. 11. Tuyere in Cupola. 12. Blower. 13. Fuel used in Melting Iron. 14. Foundry Laddles—Shanks. 15. Rattling Barrel. 16. Brass Furnace and Crucible.

No institution offers better advantages for the combination of the theoretical and practical than the M. A. C. In the study of live stock, one hour is spent in the class room and the next hour in judging animals. Students are supplied with score cards and each one puts into active operation the knowledge gleaned in the class. The engineering laboratory is a busy place every day. Blacksmithing, foundry work, machine work, wood work and drafting all combine to make the education practical. The ability to do is developed to its fullest capacity. Problems are solved mathematically in the class room and practically in the shop. Squads with compass and chain can be seen every day working out propositions in civil engineering. The chemical, physical, botanical, zoological, horticultural, bacteriological, domestic science and art, agricultural, veterinary and dairy laboratories are likewise places of industry. Huxley had to argue and demonstrate that training along these lines was really educational. His whole essay on education is taken up with this subject of scientific knowledge. Later on people admitted that for certain classes a scientific education might be good; but for the cultured class nothing would do but latin, greek, mythology, and philosophy. At the present time every college is aiming for the useful and at the same time tries to bring out the beautiful. If art be the expression of joy in one's work then present day tendencies should certainly develop the aesthetic. M. A. C. is working hard to prepare young women and men for the active duties of life and, judging from her record, she is succeeding.

In *The Delineator* for November Mrs. Theodore W. Birney has a suggestive paper on the Education of Boys as future Fathers and Citizens. The gist of her argument is that boys seldom receive the sympathy to which they are entitled—not a maudlin, sentimental sympathy that is calculated to spoil the child, but an intelligent comprehension of his needs and an interest in his doings and belongings. Her conclusion is that if parents will only take a genuine interest in all things that interest their boys, they can hold their confidence, and so long as they possess that they can be reasonably sure that their sons will not go far wrong. Parents are wont to look on the problems of youth with the eyes of an adult. How much good would result to many little fellows if their parents would come down to their view point, or come up, perhaps, recognizing the limitations of their inexperience, and judging their deeds and misleads in the light of it.

FOOTBALL

*** SUPPLIES ***
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