

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 10.

LANSING, MICHIGAN, TUESDAY, OCT. 4, 1904.

No. 3

FOOTBALL.

M. A. C. 47—FLINT 0.

In two short twenty-minute halves Saturday, our team rolled up 47 points on the Flint team. Flint was light. Not once was M. A. C.'s goal line threatened although several times the plucky little mutes made their gains. 20 men were tried out for M. A. C., and all showed varsity caliber. Flint won the toss, and M. A. C. started the game by kicking off, holding for downs and pushing Bell over for the first touchdown in two minutes.

From then on the only contest was the size of the score. Small ran the team with his old dash. McKenna made several long dodging runs, Holdsworth one of 70 yds. from the kick off, and "Babe" Kratz one of 35 for touch down after throwing off several tacklers. Bell and F. Kratz also made long gains.

Six touchdowns made in the first half and two in the second. At times the team work was brilliant, to be spoiled the next minute by fumbling and ragged work.

McDermid at center showed well on defensive, making several tacks behind the line.

M. A. C. line up:—Holdsworth, Boyle, l. e.; Capt. Bell, l. t.; Case, Lemon, l. g.; McDermid, c.; Fisk, Wright, r. g.; F. Kratz, r. t.; Ashley, Parker, r. e.; Small, Graham, q. b.; Babe Kratz, Hahn, l. h. b.; Doty, Ashley, f. b.; McKenna, Ferguson, r. h. b.

The schedule as passed by the Faculty Committee and given to the faculty is one of the best ever offered to M. A. C. rooters. A cup is up for the Inter-Collegiate championship and of the five games three are on home grounds. In addition to these three the strong All-Freshman team comes on November 5, and the unusual attraction of Ohio here next Saturday.

The football games recommended by the Athletic Committee of the faculty are as follows:

- October 1, Flint at M. A. C.
- October 8, Ohio at M. A. C.
- October 15, Ferris at Grand Rapids.
- *October 22, Albion at Albion.
- *October 31, Hillsdale at M. A. C.
- November 5, All Freshmen at M. A. C.
- *November 12, Olivet at Olivet.
- *November 19, Alma at M. A. C.
- *November 24, Kalamazoo at M. A. C.
- *Championship games.

NOTICE.

The Try and Trust Circle of King's Daughters will meet with Mrs. Vedder, October 5, at 3 o'clock. Subject, "Joshua, The Courageous Leader," (Num. 13: 1-14: 38; Josh. chs. 1-4; leader, Mrs. Weil. Praise week. Visitors are welcome.

H. W. Norton judged sheep at Flint and three different classes of live stock at Marshall.

OHIO SATURDAY.

This coming Saturday Ohio Northern University comes to meet us on the gridiron. This is the first time a team of this caliber has visited M. A. C. and strenuous efforts will be made this week to round up and spur on the team to meet them. Ohio is in the class with Notre Dame, Purdue, Oberlin, etc., and while we do not expect to beat her our team is determined to put up the fight of its life. The team has rounded into shape remarkably fast this year and with this week's work to put on improvements the men are all determined, at the chance, to break into a higher class and will go into the game not only to hold them down but to win.

Ohio has been at work two weeks longer than our team so are in better shape to stand a bruising game, but to offset this advantage Coach Brewer is endeavoring to have ready by Saturday two sets of backs and ends so that when one set is played out a fresh set may be sent in.

A mass meeting will be held this week to practice yells and organize for systematic rooting.

The game will be called at 3:15 and everyone must turn out with horns and enthusiasm to help.

Eddie Ryan of Detroit will referee and the umpire is to be selected by Coach Yost of Ann Arbor.

The west bleachers will be reserved for ladies and gentlemen accompanied by ladies.

LECTURE COURSE.

The 1904 and '05 lecture course has been arranged and contains a series of entertainments by people whose talent and experience insure an interesting and instructive course. There are six numbers; including two lectures, an impersonation, sculptor, and two musicals.

Rev. Sam P. Jones, the widely known public speaker, whose ability on the lecture platform needs no comment, and Dr. H. L. Willett, of the University of Chicago, an eloquent speaker on such subjects as Savonarola; The Quest of the Holy Grail, The Man of Nazareth, besides several strictly religious topics, are the two lecturers.

Montavilla Flowers, president of Flowers' Academy of Speech and Dramatic Art will give an interpretative recital. Among his specialties are Ben Hur, Les Miserables, Hamlet and Waterloo. Mr. Flowers is considered one of the leading impersonators of this country and his experience at home and abroad should make him a valuable number on the course. An unique and interesting number will be that of Lorado Taft, sculptor and clay modeler, who makes his models before the audience, at the same time explaining the art of sculpturing. The two musicals are the Cleveland Ladies' Orchestra and the Dunbar Male Quartette and Bell Ringers. Dates cannot be given with certainty at present, but tickets will be on sale in the near future.

HORT. CLUB.

The first meeting of the Hort. club was held last Wednesday evening. The meeting was well attended and the interest was good.

Prof. Hedrick gave a very interesting account of horticulture at the St. Louis fair. The subject was treated in detail in regard to landscape gardening, the exhibits and floriculture.

In some respects the horticulture exhibit at St. Louis is not up to the standard set by the World's Fair or the Pan American. The fruit exhibit, however, is the one redeeming feature. One thing clearly shown was that each state has a horticulture of its own and that each locality stamps some characteristics on fruit peculiar to itself. The commercial orchard was well represented, both in the kind and the variety of the package, and the possibilities of the cold-storage.

The apples from Washington and Colorado were of a higher type than those of any other state. Oregon had the finest cherries. The peaches from Michigan compared very favorably with those of other states. The citrus fruit exhibited were also of a very fine quality. New York will probably get the award in the apple exhibit, on account of having a larger number of varieties on exhibition and being favored with a good season.

Mr. McCue gave a short talk on the Doyenne dussack pear and the Pomme royale apple. A few were passed around and sampled by the club. It is the intention to study a few varieties in this way, at each meeting throughout the year. Mr. Gunson will give a report of the market at each meeting.

The horticultural club meets every Wednesday evening. A good program will be given at each meeting. All those interested in horticulture are invited to attend.

Y. M. C. A.

The first union meeting was held in the chapel Sunday evening when Dr. Edwards gave an address on the necessity of Bible study. He showed with marked clearness that man cannot call himself educated without a knowledge of the truths found in the Scriptures, and that the spiritual side of man's life—the most important of all—cannot be developed without a study of God's Word.

During this week the school will be canvassed by the Bible Study Committee to give every one an opportunity to enter the Bible classes, which will be organized next Sunday morning at 8:15 in the Y. M. C. A. room. Last year there were 179 in the different classes and this year we want to make it 200. The classes will be held at 8:15 every Sunday morning. This hour is the most convenient in the day for every one in College since it comes between the breakfast and chapel hours. Join one of the classes.

ALUMNI.

'84.

Willis Leisenring, of Pontiac, brought his nephew to the College and started him in the 3-year mechanical course. Mr. Leisenring states that he would be very glad to hear from any of the boys and especially his old classmates.

'86.

Prof. K. Tamar, who was a post graduate in botany, receiving the degree of M. S. in '86 and who for a time was professor of agriculture in Tokyo, Japan, is now President of Morioka Agricultural College, Morioka, Japan.

'88.

L. H. Dewey, Asst. Botanist of the Experiment Station '89-'90, and who is now in charge of textile plants Department of Agriculture at Washington visited the College some time ago looking into matters pertaining to his work. He photographed the patch of hemp in the botanic garden while here.

'88-'89.

William Francis Davis, with '88-'89, who has been ill with typhoid fever for several weeks, died at his home, 113 Lenawee, St. W., Lansing, on Sept. 25. Mr. Davis was for several years chief clerk in the office of the state board of health, but at the time of his death was connected with the American Dental Syndicate.

'89.

J. W. Earle is reported as a very successful teacher in Northern Indiana.

'91.

W. A. Fox is superintendent of schools of Noble county, Indiana.

President Kenyon L. Butterfield, of the R. I. Agricultural College, read a paper on some phase of rural sociology at the Congress of Arts and Sciences held at St. Louis, September 19-26. L. H. Bailey, '82, Dean of the Agricultural Department of Cornell University, was also in attendance at this meeting.

'92.

Fred B. Moore, with '92, is a civil engineer at Albion, Ind.

'93.

A. B. Cook has been renominated for the State senatorship by acclamation.

'94.

F. W. Black, with '94, is a physician at Milford, Ind.

'96.

Reuben E. Bateson with '96, was married to Miss Jennie E. Miller on Thursday, September 29, at 8 o'clock p. m., at Grand Rapids.

'04.

Mr. Henry Geller has entered the university of Illinois to take up work in agronomy, leading to the degree of M. S. of A. Mr. Geller's friends at M. A. C. all wish him the best of success.

THE M. A. C. RECORD.

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COLLEGE YEAR BY THE
MICHIGAN STATE AGRICULTURAL COLLEGE

B. A. FAUNCE, MANAGING EDITOR.

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PAULINA RAVEN, '05.

ALTA GUNNISON, '05.

CALLA KRENTTEL, '07.

ROY POTTS, '06.

HARRY HOGUE, '06.

THOMAS MCHATTON, '07.

DALTON MOOMAW, '07.

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TUESDAY, OCT. 4, 1904.

WE HAVE not as yet been able to secure the names of all of our RECORD editors, and would be glad to have those whose names do not appear report so that we may publish a complete list in our next issue.

EVERY student in College should read "What it Costs to Elect a President" in the September number of *Success*, written by Walter Wellman. A good description of the methods employed by both parties is given together with the expense of some of the great conventions in the past and how this expense is met.

THE following notice was received by the RECORD on Sept. 28, which shows that our Grand Rapids alumni have not forgotten their alma mater:

WHAT: Annual Meeting of Grand Rapids M. A. C. Association.

WHEN: Monday evening, Oct. 3, 1904.

WHERE: At the home of J. E. Coulter, 239 Paris Ave.

WHY: To elect officers. To have a social time.

Hence, come and do your part to promote the College spirit.

MARIAN WEED, Secy.
239 Paris Ave., Grand Rapids, Mich.

THE FARMERS CLUB.

The first meeting of the Farmers Club which was held last Wednesday evening, was a decided success in every respect. The attendance, as well as the program, was far above the average for the club. The meeting was opened with a short address by the president, after which R. C. Potts read a paper on "Dairying in Michigan." Prof. C. D. Smith opened the discussion with an exceptionally interesting (also amusing) account of his experience as a dairyman. He put the matter in a new light to all present, and showed that dairying is a practical, money-making business. Instructors F. O. Foster and W. R. Wright also gave very instructive talks on the subject. There were only a few new men present at this meeting, and it is hoped that more will come hereafter.

The next meeting will be held Wednesday, Oct. 5th, and every one interested in Agriculture is requested to be present.

SOCIETY OFFICERS.

The following is a list of the officers of the various societies for the fall term:

ATHLETIC ASSOCIATION.

President, A. J. Anderson; Vice President, J. E. Schafer; Secretary, H. S. Hunt; Treasurer, C. I. Auten; Track Mgr., Bruce McAlpine; Baseball Mgr., R. Rasmussen; Tennis Mgr., K. B. Stevens; Asst. Football Mgr., J. O. Gara; M. I. A. A. Director, A. J. Anderson.

Y. M. C. A.

President, C. C. Ford; Vice President, H. H. Barnett; Secretary, E. A. Towne; Treasurer, C. D. Sterling; RECORD Editor, R. E. Haines.

Y. W. C. A.

President, Eva Keeney; Vice President, Bernice Black; Secretary, Mae Louise Reed; Treasurer, Paulina Raven.

SORORIAN.

President, Bessie Phillips; Vice President, Alida Alexander; Secretary, Winnie Tyler; Treasurer, Carrie Auspach; RECORD Editor, Calla Krenttel.

HORT. CLUB.

President, J. E. Schaefer; Vice President, L. D. Bushnell; Secretary, M. J. Dorsey.

SIGMA MU BETA.

President, H. C. Oven; Vice President, J. E. Fisk; Secretary, T. F. Locke; Treasurer, M. J. Dorsey; Marshal, R. A. Small; Warden, C. E. Willits; RECORD Editor, G. P. Boomsliker.

THEMIAN.

President, Kate Coad; Vice President, Cora Feldkamp; Secretary, A. B. B. Wimple; Treasurer, Mary Pratt; RECORD Editor, Paulina Raven; Marshal, Gail Westover.

HESPERIAN.

President, G. W. Nichols; Vice President, W. P. Wilson; Secretary, C. A. Wilson; Treasurer, C. M. Granger; Registrar, S. B. Lilly; Marshal, J. S. Shaw; RECORD Editor, T. H. McHatton.

COLUMBIAN.

President, V. R. Gardner; Vice President, H. H. Crosby; Secretary, A. W. Wilson; Treasurer, T. F. McNally.

UNION LITERARY.

President, Horace Hunt; Vice President, J. A. Lambert; Secretary, Chas. Landon; Treasurer, Cass Lamb; RECORD Editor, R. C. Potts; Marshal, E. P. Tallant.

ALPHA ZETA.

Chancellor, A. J. Anderson; Censor, V. G. Gardner; Treasurer, P. H. Wessels; Scribe, E. G. Kenney; Historian, J. W. Bolte.

FERONIAN.

President, Bessie Bemis; Vice President, Clara Campbell; Secretary, Berenice S. Maynard; Treasurer, Cornelia Fisher.

TAU BETA PI.

President, H. S. Hunt; Vice President and Treasurer, W. P.

Robinson; Recording Secretary, George W. Nichols; Corresponding Secretary, B. M. McAlpine.

ECLECTIC.

President, O. W. Burk; Vice President, E. H. Wilder; Secretary, H. Maatenbrook; Treasurer, G. Hebbelwhite; Marshal, A. A. Case; Librarian, G. Dudley.

OLYMPIC.

President, R. Rasmussen; Secretary, I. E. Parsons; Treasurer, Burton Clise; Marshal, Frank Parker.

Y. W. C. A.

The prayer meeting Thursday evening was led by Paulina Raven. The subject was "Submission," and the scripture lesson James 4. It was a good meeting and was well attended.

The following are extracts from letters received by Dr. Beal:

"I wish to tell you about what I saw at Hanover, Illinois, this week. One was below the dam on a white limestone rock where they had drilled for blasting. Water had washed a peach stone into an inch and-a-half hole, about five inches deep and covered it with sediment. When the water subsided the pit started to grow and on August 24 it was eight inches tall. The whole was completely root bound, the whole root system pulled up like a pot bound plant. It was about four feet above water and very dry, all the moisture it got must have been by absorption from the lime rock.

The second curiosity was in the buttment of the river bridge. A seed of a mustard having washed down and sprouted in the crevices, shoved out and upward until it was four feet high and branched like one grown in open. The seed was ripe and pods were bursting. I could hardly help wondering where its progeny would be scattered as every seed must fall in the river below. * * * I have seen numerous specimens of faccation that would make good specimens for class work and regretted that I could not send them to you. I have been at work here since July 18 and enjoy my work very much. I have the N. ¼ of the State and am now in the Miss. district, N. W. counties.—CHAS. A. MOSIER.

The following is from Hugh P. Baker, Assistant Professor of Horticulture and in charge of the Forestry at Ames, Iowa:

In beginning the new line of work here I am finding very many pleasant things—and many obstacles. Part of my time will be given to experiment station work for which I am glad, as I like that class of work. A large collection of wood specimens and a small herbarium have been turned over to me. * * * We are just beginning a series of co-operative experiments with the Bureau of Forestry, in methods of treating soft wood fence posts such as willow, soft maple and cottonwood. About 800 posts have been donated by farmers in the state and we hope to have the experiments under way within a few weeks. It will mean a big thing to the farmers and stockmen in the state if we can find some cheap method of treating these cheap quick-growing timbers. Several acres have been given me for exhibition plats and I am collecting

and storing seed and hope in the years to come to have good examples of all the trees that are adapted to Iowa conditions. We have a number of acres of college woods for demonstrations in thinning, etc. * * * We aim to give the agricultural and horticultural students such training in methods of planting and caring for wood lots and groves as will help them on the farm or whatever business they go into.

'99.

W. E. Mills with '99, was at the College the 2d inst. Mr. Mills is a lieutenant in the 9th U. S. Infantry, stationed at Madison Barracks, N. Y., and is on his way to Ft. Leavenworth, Kansas, to attend the Infantry and Cavalry school.

The many friends of S. Fred Edwards will be glad to learn that he has been tendered and has accepted a position as laboratory assistant in bacteriology at the University of Michigan where he went to pursue work in his chosen subject. His work in the laboratory will be carried on during the forenoon of each day, while his afternoons will be spent in study. Mr. Edwards certainly has the very best wishes of the whole college community in his work at the U. of M., and in view of his past work at M. A. C. we believe the University authorities are to be congratulated upon securing his services.

Sp. '01.

W. C. Owen, special sugar beet student in 1901, is now chemist for a sugar beet factory located at Santa Lucia, Cuba.

Sp. '02.

Roland Mosier, special sugar beet student in 1902, is chemist in a sugar beet factory located at Longmont, Colo.

At the home of Mrs. J. H. Cowley, East Michigan avenue, Sept. 28, at 8 o'clock p. m., occurred the marriage of W. J. Geib, '02, to Miss Edith Ray Dresser. Rev. Ernest Bourner Allen performed the ceremony. Bessie Phillips, '05, attended the bride, and Claud I. Auten, '05, was best man. Mr. and Mrs. Geib will visit in various parts of the state a short time, and will be at home after Oct. 15 at Bowling Green, Ky. Mr. Geib has a position with the U. S. Soil Survey. Both young people are well known at M. A. C. and have the best wishes of their many friends at the College.

'03.

Ray R. Tower, who was obliged to leave M. A. C. on account of ill health, writes very pleasantly of his work in Colorado Springs, Colo. Mr. Tower's work is the collecting of plants and seeds for Glen Eyrie Park owned by Gen. Palmer. The work is under the direction of Mr. R. J. Coryell class of '84. Colorado seems to be doing wonders for Mr. Tower as he has gained twenty pounds in the six weeks he has spent in the above place and urges his friends who are ailing to take Colorado air in large doses.

'04.

G. G. Robbins sends in his subscription for THE RECORD. Mr. Robbins is in the employ of the General Heating & Construction Company which is putting in a hot water system under the name of the Little Rock Heating Co. His address is 604 W. 3d. St. Little Rock Ark.

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ABOUT THE CAMPUS.

Dr. Waterman judged horses at
Deckerville, September 22.

Prof. Jeffery judged grains and
seeds at the state fair, Pontiac.

Mr. Geo. Martin, class of 1904, is
a visitor at the College this week.

Four senior women have elected
the work in dairying this fall term.

Cattle, sheep and swine will be
judged by College men at Hillsdale
this week.

The chemical department reports
250 students in general and 80 in
organic chemistry.

Louis G. Michael, '03, was at the
College on September 26. Mr.
Michael is a student at Columbia.

Two dozen fine new chairs have
been placed in the Library. The
President's office was also remem-
bered.

The entire enrollment to date is
825. This is fully 50 more than the
number registered at the same time
last year.

Otis N. Blair, recently elected in-
structor in mechanical engineering,
is a graduate of the Kansas Agri-
cultural College, class of '04.

Dean Gilchrist reports the work
of the Women's department start-
ing off very nicely with fewer con-
flicts in the subjects taken than
usual.

Mr. W. S. Towner, who was in-
jured while playing at football near
the College Hall, is much improved
and while the ankle was strained
badly, it is scarcely believed that it
is broken.

We are glad to report that Harry
Hogue, who was taken to the hos-
pital last week, is much better and
will be able to attend classes in a
few days.

Mr. O. L. Ayers who has been
at his home in Collegeville during
his father's sickness and death has
again returned to his work in
Southern Tenn.

A good strong wire fence has
been built around the football
ground. As a consequence no one
was asked to keep back off the
gridiron on Saturday.

Mr. Otto M. Riggs, instructor in
chemistry at M. A. C. 1903-04, has
been studying at the Harvard Sum-
mer School and re enters Harvard
for his last year this fall.

A copy of "Logarithmic Tables"
by Prof. G. W. Jones, and contain-
ing the name of R. S. Davis, has
been left in Dr. Beal's office. The
owner is requested to call for same.

There seems to be need of more
mail boxes at our postoffice. Won-
der if we cannot manage to have a
few more and thus accommodate
students who would be glad to
secure them.

The class of '07 have elected
officers as follows: President, W.
B. Allen; Vice President, A. B.
Skeels; Secretary, B. B. Clise;
Treasurer, C. M. Granger; Searg't
at Arms, W. S. Towner.

Mr. Ludwig Hchsachs was a
visitor at the College on last Tues-
day. Mr. Hchsachs was in charge
of the German government's exhibit

of horses at St. Louis and visited at
M. A. C. on his way home.

Good use is being made of the
dirt removed for the tunnel near the
Physics building in filling up the
holes on the flats near the botanic
garden which were scraped out to
raise the west side of the garden.

Mr. Lewis P. Haight, proprietor
of the Muskegon Knitting Mills,
was a caller at the College last week.
Mr. Haight owns a large farm near
Muskegon and is contemplating
stocking the same with dairy cattle.

Chas. Hermann, '97, of Lansing,
and A. E. Johnson, secretary of the
Y. M. C. A., of Lansing, visited
the College last week, soliciting
funds for the new Y. M. C. A.
building. They report good suc-
cess.

At the special meeting of the
voters of the College school district
held on the evening of Sept. 30, it
was voted to divide the district and
to raise \$500 with which to provide
another teacher and to secure room
for the same.

An interesting experiment is be-
ing carried on by the station and
farm department in the feeding of
pigs. The pigs were turned into a
field of sugar beets and were then
fed only half as much grain as those
shut up in a close pen. The
idea is to learn the value of a given
area of roots for pig feed.

Last spring the botanical depart-
ment received some twenty living
plants from former student H. E.
Skeels, who is in forestry work at
Joliet, Illinois, and in return Dr.

Beal recently sent him a consider-
able number of plants.

Our herdsman, Mr. Harrison,
judged the dairy cattle at the West
Michigan Fair. The breeders ex-
pressed their entire satisfaction with
his decision.

Mr. Yuzo Hoshino, a Japanese
student at Cornell, visited the Col-
lege on last Thursday. Mr. Hoshino
has been studying horticulture under
Prof. L. H. Bailey and is spending
the summer in travel about the
country. He returns to Europe
this fall.

Now is the time to pull the old
squash and pumpkin vines and burn
them thus destroying the breeding
places of the black squash bug.
Myriads of such bugs are just now
maturing so as to pass the winter
hidden away in rubbish in order to
be in good healthy condition for the
campaign next spring.

The republican club held a meet-
ing on Sept. 30 and elected the fol-
lowing officers: President, A. J.
Anderson; 1st Vice President, P.
H. Wessels; 2d Vice President, C.
I. Auten; Secretary, B. W. Mc-
Alpin; Treasurer, R. J. West;
Executive committee, E. N. Bates,
E. C. McKenna, R. C. Fowler.

Prof. Smith visited the Postum
Cereal Company's farm recently
and advised them as to the laying
out of an irrigating system and put-
ting in their crops. He also visited
the Prairie Farm owned by the
Pittsburg Plate Glass Company, and
helped settle difficulties which they
had.

Instructor L. F. Bird judged all the live stock at Vassar on the 28th.

Mr. Ray Stannard Baker spent the past week with his family on the Delta.

Prof. Shaw and Herdsman Harrison judged cattle, sheep and swine at Adrian on Sept. 28-29.

Mr. R. Parson Davis, with '95, is city inspector of the new water system being installed at Coldwater.

The all freshmen team were hard at practice on last Friday evening under direction of Mr. Hurst.

Mr. Gordon Dudley, who has been confined to his room for about a week with blood poisoning in his heel, is again able to attend classes.

G. S. McMullen, of Grand Ledge, who graduated at M. A. C. last June, called at the College on Sept. 27, and was delegated to judge live stock at Flushing on the 29th.

The library is in receipt of a copy of "Japan in the Beginning of the Twentieth Century." The volume was mailed by Mr. Seiichi Tegima, Com. General, Japanese Pavilion, World Fair Grounds.

Prof. Shaw is to be at the St. Louis Exposition on October 12 and 13 and will make a two hour demonstration each day illustrating the methods he employs in giving instruction in sheep judging.

There has been a great demand for instructors and students specializing in live stock to judge live stock at the various local fairs throughout the state. The demand has been so great that it has not been possible to supply men.

Word comes to us that parties connected with the management of the West Michigan Fair made the statement that the Agricultural College exhibit attracted fully as much, if not more, attention than any other indoor exhibit on the grounds.

The museum has just been enriched by a fine specimen of a nearly white Michigan deer, a partial albino. The animal is a yearling and was killed last November by Maj. C. E. Foote, of Kalamazoo, from whom it was purchased. It has been beautifully mounted and is now on exhibition in the museum.

The State Board of Agriculture met in the College Board Rooms on Friday evening, September 30th at eight o'clock, also on October 1st at 8:00 a. m. All members were present except Mr. Wallace. Among other business transacted an appropriation was made for the extension of the tunnel system to the Armory, Bath House and Abbot Hall.

Through the kindness of Mr. H. G. Lareau the zoological department has received two very interesting insects from Elephants' Cave near Bombay, Ind. The insects are said to be found only in this cave, and are considered sacred by the natives who worship them. They were collected by Col. J. F. Lareau, U. S. N., in May of the present year, and will be placed on exhibition in the museum at once.

A new Filipino student in the person of Mr. Pastor Airsado has just entered College. Mr. Airsado is a native of the province of Ilocos Sun, and completed ten grades in his home high school at Vigan, P. I. He too has been sent to the U. S. by the home government, and is

under the direction of Supt. W. A. Sutherland, who is expected at the College soon. Mr. Airsado has only been in this country a short time.

The following named students have been chosen captains of the Surveying Squads for the fall term:

Senior R. R. Surveying.—H. S. Hunt, W. F. Jordon, G. R. Fryman, R. F. Bell.

Junior Surveying.—J. E. Fiske, G. P. Boomsliet, H. H. Barnett, F. L. Liverance, W. P. Wilson, L. M. Spencer, L. J. Smith, W. J. King-scott, H. J. Mastenbrook, R. Rasmussen, J. E. Poole, E. N. Bates.

More or less trouble with ground moles has been experienced during the last 25 or 30 years, and during the past summer an effort has been made in the botanic garden to trap them with the result that quite a number have been caught. With all of his experience about the campus Dr. Beal thinks he never found anything to equal this tunnel business for rooting up the ground.

In the office of the Entomologist of the Experiment Station a bibliography is being made of all the insects of Michigan mentioned in the reports of the State Board of Agriculture from the beginning up to date. This is in the form of card index and has already proven very useful, there being about 2400 names indexed. This department is now gradually accumulating records from the State Horticultural Society's reports.

Dr. Weigmann, director of the experiment station, Versuchstation und Lehranstalt für Molkeriwesen, located at Kiel, Germany, was a visitor at the College last week. Dr. Weigmann's investigations have been practically all bacteriological and he is recognized in Europe as an authority. He represents the Minister of Agriculture of Germany, and has been sent over primarily to visit the World's Fair at St. Louis and also for the purpose of studying dairy schools, creameries, cheese factories and also all plants devoted to the manufacture of dairy products.

The Department of Physics and Electrical Engineering has purchased a storage battery to be used more particularly in the electrical engineering work. This storage battery is put up in a different shape from most storage batteries. It consists of a number of trays like an ordinary meat platter and each cell consists of one tray and sets in the other one. Enough of those are piled up one on top of the other and nesting in the other to give the desired voltage at the rate of 2 volts per tray. Thus it is seen that only the bottom tray needs to be insulated, and no connectors are needed between cells. A glass case can be put over the whole when finished and the whole battery could be installed in an office by the side of a role top desk if desired. This battery when charged to its full capacity can furnish 100 amperes for 1 hour. It can be charged from either the 500 volt street railway circuit or from our own alternating current mains by use of the rotary converter described in last week's issue. This storage battery will be quite an addition to the department and will enable the department to make many experiments which otherwise could not be performed with the apparatus at hand.

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