

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 7.

LANSING, MICHIGAN, TUESDAY, JUNE 3, 1902.

No. 36

## M. A. C. WINS THE MEET.

ALBION DEFEATED IN TENNIS, TRACK EVENTS AND WRESTLING. THE BALL GAME GOES TO ALBION, 2 to 0.

Before a large crowd of enthusiastic rooters, M. A. C. won from Albion in most of the contests in the dual meet Saturday. In the early forenoon the sky threatened rain but the afternoon came out bright and warm.

The tennis matches began at 8:30 in the morning and proved a gratifying surprise to M. A. C., all the matches being won. Horton beat the much talked of White (the man whose picture was in the paper) and the succeeding matches in singles and doubles also were won by M. A. C.

The track events began at 1 p. m. on the new athletic field. The track by reason of its condition was slow and the time made in some of the races was consequently exceedingly good. Because of the poor condition of the track the hurdles were run across the field inside the track. Millar perhaps, proved himself the hero of the day, winning the pole vault at the last minute besides pitching one of the most remarkable games of ball seen at M. A. C. for years. There were no serious accidents to mar the sport, though Moon was handicapped by a lame leg and McKenna was accidentally tripped in the quarter mile.

The story in detail:

### TENNIS.

Horton, M. A. C. won from White, A. 7-5, 6-3; Willett, M. A. C. won from Hunt, A. 6-2, 5-7, 6-4. In the doubles Willett and Horton M. A. C. won from White and Hunt, A. 6-2, 5-7, 6-2.

### TRACK EVENTS.

100-yd. dash.—Kastner, M. A. C. 1st, Moon, M. A. C. 2d, Striker, A. 3d; time, 10 3-5 sec.

1-mile run.—Holdsworth, M. A. C. 1st, Phillips 2d, Greeley, A. 3d; time, 5 min. 15 3-5 sec.

Hammer throw.—Maddock, A. 1st, McKenna, M. A. C. 2d, Gill, A. 3d; distance, 119 ft. 5 inches.

120-yd. Hurdles.—Church, A. 1st, Moon, M. A. C. 2d, McKenna, M. A. C. 3d; time, 17 sec.

220-yd. dash.—Kastner, M. A. C. 1st, McKenna, M. A. C. 2d, Striker, A. 3d; time, 23 sec.

Shot put.—Carpenter, M. A. C. 1st, Maddock, A. 2d, McKenna, M. A. C. 3d; distance, 36 ft. 5 in.

Running high jump.—Gill, A. 1st, Hunt, A. 2nd, Baldwin, M. A. C. 3rd, height 5 ft. 5 in.

440 yd. dash.—Kastner, M. A. C. 1st, Church, A. 2nd, time 55 sec.

Two mile run.—Phillips, M. A. C. 1st, Gill, A. 2nd, Dugan, A. 3rd, time, 11 min 36 2-5 sec.

Pole vault.—Millar, M. A. C. 1st, Church, A. 2nd, Striker, A. 3rd, height 9 ft. 3 in.

Half mile run.—Holdsworth, M. A. C. 1st, Phillips, M. A. C. 2nd, Greeley, A. 3rd, time 2 min 23 1-5 sec.

Running broad jump.—Church, A. 1st, Childs, M. A. C. 2nd, Moon, M. A. C. 3rd; distance 20 ft. 2 in.

Discus throw.—Maddock, A. 1st, Carpenter, M. A. C. 2nd, Kraty, M. A. C. 3rd, distance 109 ft.

Albion forfeited the relay to M. A. C. and the 220 hurdles, standing broad jumps and the running hop step and jump were not pulled off owing to the lateness of the hour.

### THE GAME.

The track events were finished at 4:40 and the ball game was immediately commenced. Albion came first to bat and Striker, first man up, was out on strikes, Sebastian flew out to B. Frazer and Simmons struck out. For M. A. C. Tower got a hit but Gunnison and Case struck out and Millar flew out to Striker. In the second Albion got two hits and one score; one more run came in the fifth when Church made the circuit on his hit credited as a home run through fielder's error. With the exception of the second and fifth innings, no runs were scored by either side. In the third inning Millar performed the feat of striking out the side in one, two, three order. The veteran Simmons struck out three times. Several times both sides had men on bases but the hits were not forthcoming, the batsmen either striking out or popping up short flies or hitting easy grounders. Tower for M. A. C. had the best batting eye, getting three of the four hits made.

ALBION.	R.	H.	P.O.	A.	E.
Striker, lf.	0	0	1	0	0
Sebastian, c.	0	0	10	0	0
Simmons, 3b.	0	0	3	0	1
Howe, rf.	1	1	0	0	0
Karsten, p.	0	1	1	3	1
McKale, cf.	1	2	1	0	0
Hyney, ss.	0	0	1	1	0
Knickerbocker, 2b.	0	0	1	0	0
Church, 1b.	1	1	9	0	0
Totals.	2	5	27	4	2

M. A. C.	R.	H.	P.O.	A.	E.
Tower, c.	0	3	12	1	0
Gunnison, cf.	0	0	1	0	1
Case, rf.	0	0	0	0	1
Millar, p.	0	0	0	5	1
Wilcox, 2b.	0	1	2	1	0
Smith, ss.	0	0	0	2	0
Haftencamp, lf.	0	0	1	0	0
Rasmussen, 1b.	0	0	9	0	0
B. Frazer, 3b.	0	0	2	0	0
Totals.	0	4	27	9	3

Bases on balls, off Millar 4. Struck out by Millar 12, by Karsten 8, home run, Church. Left on bases, M. A. C. 5, Albion 7. Stolen bases, Albion 4, M. A. C. 2. Double plays, Hyney to Knickerbocker to Church; Smith to Wilcox to Rasmussen. Umpire, Fitzgibbons. Time, 1 hr. 40 minutes Attendance 650.

### WRESTLES.

Heavy weight.—Maddock, A. threw Bird, M. A. C., first bout, 1

## NOTICES.

M. I. A. A. Field Day, Albion June 6 and 7. Plan to go and root for M. A. C.

A penknife was left in the Physics laboratory Thursday by one of the freshmen girls. Owner please call for same.

Club G will be open during the summer vacation. Those desiring board can make arrangements by calling at 32 Williams.

A. R. CARTER, Steward.

min. 6 sec.; second bout, 2 min. 2 sec.

Middle weight.—Brunger, M. A. C., threw Wilder, A.; first bout, draw; second bout 16 sec; third bout, draw; fourth bout forfeited to Brunger.

Welter weight.—Geib, M. A. C., threw Wilder, A.; first bout, 2 min. 21 sec.; second bout, 16 sec.

Light weight.—Sansburn, M. A. C.; threw Knickerbocker, A.; first bout, 41 sec.; second bout, 1 min. 4 sec.

Feather weight.—Bryant, M. A. C., threw Lescohier, A.; first bout, 1 min. 23 sec.; second bout, 38 sec.

In figuring points only track work was counted. Total number of points, M. A. C. 74, Albion 47. Brail, of Albion was disqualified in the 440-yd. dash for walking in. The relay was forfeited to M. A. C. by Albion.

## M. A. C. vs. ALMA.

M. A. C. went to pieces in the third inning and allowed Alma five runs and five hits which coupled with three costly errors lost her the game. In order to allow the visitors to catch an early train only seven innings were played.

M. A. C.	AB.	R.	IB.	PO.	A.	E.
Towar c.	4	0	0	0	3	1
Gunnison c.f.	3	1	0	1	0	1
*Case r & p.	3	0	1	1	2	0
Smith s.s.	3	0	0	2	1	0
Millar p & 2b.	3	0	0	0	0	0
†Haftencamp lf & rf.	2	0	0	0	0	0
Wilcox 2b.	4	0	1	1	0	1
Rasmussen 1st b.	2	1	0	11	0	0
B. Frazer 3b.	2	1	1	0	2	1
Totals.	27	3	3	16	8	4

\* In fourth inning Case changed from rf to pitcher.

† In the fourth inning Haftencamp went to rf and J. Frazer to lb.

ALMA	AB.	R.	IB.	PO.	A.	E.
Robinson 3b.	4	1	1	4	1	1
Walker s.s.	4	1	0	0	1	2
McBride p.	3	1	0	0	2	0
Baker 2b.	4	0	1	2	0	2
S Dunning 1b.	2	0	2	3	0	2
Helmer c.f.	1	0	1	3	0	0
Whitney l.f.	2	0	0	1	0	0
W. Dunning c.	2	1	1	1	0	0
Shepherd r.f.	3	1	1	0	0	0
Totals.	25	5	5	14	4	7

Bases on balls, Millar 1, Case 3, McBride 2; hit by pitched ball, McBride 2; struck out, Miller 3, Case 2, McBride 5. Out by being hit by batted ball, Alma 2. Umpire, Fitzgibbons. Time of game 1 hr., 30 min.

Dartmouth recently defeated Brown University in debate, but was in turn defeated by Williams.

## ALUMNI.

'82. J. M. Smith for many years engaged in teaching in New York visited the College last week. Mr. Smith is at present engaged in farming, his health having necessitated the outdoor life.

'86 to '89. E. J. Frost is assistant professor of mechanical engineering in Washington School of Science, Pullman, Washington.

'93. W. W. Paddock is at present Professor of Botany and Horticulture, Colorado Springs, Colorado, and is meeting with great success in his work.

'93. Miss Lillian Wheeler, of the United States Department of Agriculture, Washington, D. C., arrived home yesterday. The chief of her division gave her, before her departure, a beautiful watch in token of three years' faithful service.

Ex-'93. B. A. Stowe is now superintendent for the Janders Electric Co., Cleveland Ohio. His address is 128 Beechwood st.

'95 m. W. J. Goodenough is in business for himself in New York City.

'95 m. H. R. Parish is leading draftsman for New York Shipbuilding Co., Camden New Jersey.

'96 m. J. H. Steele is leading draftsman for the Bullock Electric Manufacturing Co., Cincinnati, Ohio.

'97 m. G. A. Parker is leading draftsman for the Jeffrey Electric Mfg. Co., Columbus, Ohio.

'97 m. I. H. Simmons and wife, of Chicago, visited Friday and Saturday with Clyde Armstrong, '03 m.

'98. H. C. Skeels, botanist for the Forest of Arden, Joliet, Ill., is meeting with very marked success in his work.

'98. Floyd W. Robison has bought a lot in Oakwood and will build this summer.

'98 m. F. V. Warren is engineer for the Smedley Construction Co., Philadelphia, Pa.

'99. Fred N. Lowry is employed by the Dow Chemical Co., of Grand Blanc, as assistant engineer and draftsman.

'99 m. E. R. Russell was married May 28 to Miss Dorothy Ohland (with '01) at Saginaw. Only relatives and intimate friends attended the ceremony. Among the former M. A. C. students present were Arthur Lyons and Mary S. Knaggs. Mr. and Mrs. Russell, after a short wedding journey, will make their home in Detroit.

'01. Roy L. Brown will stay at M. A. C. this summer and assist in the work of the botany department.

Ex-'01. W. M. Treadwell is president of the Washtenaw County Officers, Teachers and Patrons Association.

(Continued on page two)



# THE M. A. C. RECORD.

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

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TUESDAY, JUNE 3, 1902.

THERE is reason for congratulation over the result of Saturday's contests. The only thing lacking was a fit celebration to crown the events of the day. No one believes that athletics constitute all there is to college life, but an athletic contest is a contest that affords an occasion for enthusiasm of the right sort, and in light of this is it not to be regretted that there was nothing in the way of a jollification Saturday evening? Contestants in intercollegiate contests of any sort whatsoever backed by a well-unified college spirit, are the contestants who win where the chances are at all even. M. A. C. should have won over one hundred points Saturday instead of the seventy-four.

## ALUMNI.

(Continued from page one.)

'00, C. H. Parker, and '00, W. T. Parks are in Grand Rapids at 61 S. Division St. as proprietors of the Grand Rapids Creamery Co. and doing a general milk and cream business.

'00m. Wm. Bale is in the draughting room of the Detroit Shipbuilding Co. His address is 1055 Wabash Ave. The company has just built one of the finest paddle-wheel steamers on the lakes. Mr. Bale accompanied the boat on its trial trip Saturday. Bale and Hoag have charge of the class in mechanical drawing in the Detroit Y. M. C. A.

'01m. Roy Norton is to be married June 11th to Miss Grace French, of Richmond. He has a position with the Port Huron Steam Thresher Co.

'01m. J. G. Aldrich, has gone to Ft. Wayne, Ind.

Ex-'02. Mr. C. L. Bailey and Miss Blanche VanAtta were married May 8, at the home of the bride's parents in Northfield.

The place of the Saturday lunch of the Chicago M. A. C. Ass'n

has been changed. In the future at the N. E. corner of Clark and Adams streets will be the place of meeting. These Saturday lunches are very enjoyable affairs, having an average attendance of eight to ten with one or two new faces showing up at each meeting.

## STATE BOARD MEETS.

At the meeting of the State Board last week, several important changes were made in the faculty and action was taken on several matters that have been under consideration for some time.

Prof. C. D. Smith was relieved from the superintendency of institutes and made agriculturist of the experiment station. Prof. Taft was relieved from his position as head of the horticultural department and made superintendent of institutes and state inspector of orchards and nurseries in place of D. W. Trine, resigned. Prof. Taft as before remains a member of the faculty, his salary still being the same. Prof. U. P. Hedrick was made head of the horticultural department and superintendent of grounds at a salary of \$1,800 a year and residence. Dr. Philip W. Ayres, of New Hampshire, will be professor of the department of forestry with a salary of \$1,500 a year and residence. Instructor Reynolds was made assistant professor of mechanical engineering. Miss Harriet C. Taylor was elected instructor in English.

An additional \$200 was appropriated for the grand stand (making a total of \$600) and its construction will be begun at once. Secretary Brown and a member of the athletic union having it in charge.

The board adopted the plans for the new students' bath house and the mechanical building, bids for which will be opened at once. The new mechanical building will also contain rooms for the departments of electrical engineering and physics, and for civil engineering. \$5,000 was voted for equipment of the new bacteriological laboratory.

The present employes of the College were all re-elected, and numerous salaries increased.

The following is clipped from the Arizona Republican for May 23d:—Mrs. F. A. Gulley, wife of Professor F. A. Gulley, ['83] died yesterday morning about 5 o'clock at the family residence, 503 North Second avenue. She has been a sufferer of lung trouble for a long time and death was not unexpected. Mr. and Mrs. Gulley have been identified with Arizona for a number of years and both were well-known. They have lived in Phoenix about six years. She was 49 years old. The funeral will be held this afternoon at 4 o'clock at the undertaking parlors at Mohn & Easterling; Rev. E. A. Penick will officiate.

## Y. M. C. A.

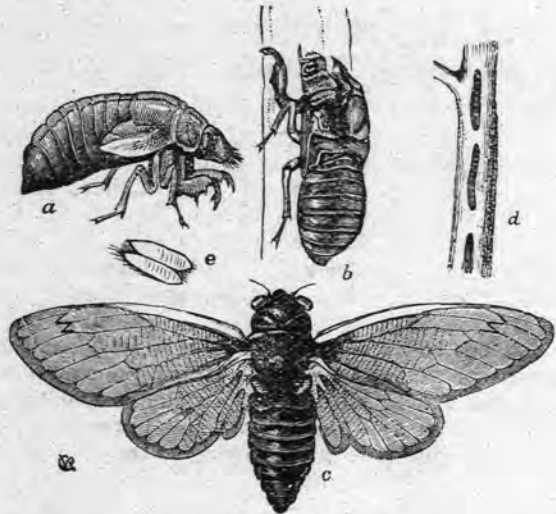
The union prayer meeting Thursday evening was led by Miss Wright. Subject: "Am I Sleeping at My Post?" If we obey Christ's injunction to "be instant in season and out of season," there will be no danger of sleeping at our post. Chapel services Sunday morning were conducted by Rev. F. A. Perry, of the Methodist

## THE SEVENTEEN-YEAR LOCUST.

The seventeen-year locust is nearly due now and while there is little to fear from its advent, except perhaps a little pruning done to young fruit stock, it is desirable to obtain as much accurate information as possible regarding this very interesting creature. It is especially desirable to compile a map of the state including all points visited that we may be able to compare this out-

break with the one seventeen years hence. It is hoped that specimens of the insects from all districts visited may be sent to the entomologist in order to make this possible. The accompanying cut gives an idea of the appearance of the insect.

Send in specimens from each locality. The writer wishes to obtain as many records as can possibly be obtained. R. H. PETTIT.



SEVENTEEN-YEAR CICADA.

a—Immature form or nymph. b—Cast skin. c—Adult insect.  
(From Riley, First Report, Insects of Missouri)

Protestant Church, Lansing. The service was well attended and the sermon was enjoyed by all.

The union meeting of the Y. M. and Y. W. C. A. was led by Professor Ferguson, who gave a very interesting talk on the character of St. Paul. Of all the great evangelists, Paul was undoubtedly the greatest that has ever lived. His life was so consecrated to God that for him to live was Christ. We may all live the glorious life like Paul, but we must first pay the price.

Thursday evening at the regular business meeting the following delegates to the annual Y. M. C. A. convention at Lake Geneva, Wis., were elected: B. M. Brown, H. N. Hornbeck, E. A. Seelye, and Leslie McWethy. The convention lasts ten days beginning June 20.

## A SENIOR THESIS.

An interesting piece of work has recently been completed in the shops of the Mechanical Dept. in the form of a traction dynamometer. It was designed by Messrs. Shedd and Richmond in connection with their thesis work, and to be used in the traction engine test. It consists of a

cylinder five inches in diameter, bolted to a suitable frame and filled with oil. Into the cylinder is fitted a piston which takes the pull that is to be measured. The pressure of the oil in the cylinder is measured by an ordinary gauge and the total pull computed.

Both the pattern work and machine work was done in the mechanical shops. The cylinder and head were cast in one piece and bored and ground in the large Putnam lathe with double cutters made in the shop. The piston and rod were ground in the universal grinder to exactly fit the cylinder and gland. Neither stuffing box nor piston rings are used, on account of the variable friction resulting.

In the calibration of the dynamometer a pressure of 286 pounds per sq. in. was obtained in the cylinder without any perceptible leakage of oil past the piston, that pressure being equivalent to about 6000 pounds pull.

The enumeration of students in the University of Michigan, this year, shows a grand total of 3,709, a decrease of three from the enrollment of 1900-'01.

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# ABOUT THE CAMPUS.

Dr. Marshall's house has all been repainted the past week.

Miss Mary Smith spent several days last week at her home in La-port.

P. J. Spalding, of Holly, Mich., with '04, spent Saturday at the College.

Ray Vandercook, ex-'05, visited College friends Friday and Saturday.

A likeness of the M. A. C. wrestlers appeared in the Sunday Tribune.

Several students improved the opportunity afforded by the Friday holiday and spent the day at Pine lake.

J. J. Parker, with '00, and W. E. Dunston, with '01, are in the drafting office of the American Blower Co., Detroit.

C. M. Blanchard, '03m, received a visit from his brother last Thursday. He incidentally attended the Olympic party.

Preparations are being made for Intercollegiate Field Day. Steps are being taken to find out approximately how many students will go, so this accommodation may be secured.

The Olympic Society entertained their friends at a party in their rooms last Thursday evening. Dancing was continued till 11 o'clock when all went away with the satisfaction that a most enjoyable time had been spent. Light refreshments were served. The party was chaperoned by Miss Georgiana Blunt.

Glenn Sevey spent Thursday till Sunday at his home.

It is thought that the frosts of last week have not seriously injured the fruit.

Zoe Burnett, ex-'04, came to M. A. C. in time for the field meet Saturday.

Instructor Longyear's brother came last week from Mason for a short visit.

Beginning today the dairy will be able to furnish cottage cheese to all desiring it.

Miss Lydia Trattles, an ex-student of M. A. C., is to be married June 18 to Sir William Cotes, a wealthy Englishman.

Eva J. Gray, with '01 is located at present in Pasadena, Cal. She is cashier in one of the largest grocery houses of the city.

Instructor Longyear will spend the summer at M. A. C. in study, as his health may permit. He intends to take his degree with '03.

The battalion was a great help in making the Memorial day exercises in Lansing a success. After the parade an exhibition drill was given on the Capitol grounds. According to those competent to judge the drill was one of the best ever given by the battalion.

Miss Avery has taken the second series of measurements of the girls in the gymnasium classes. A decided improvement is shown in lung capacity and strength tests. Each girl's measurements are traced on a chart to show whether the individual is above or below the average.

Many of the students spent Friday, Saturday and Sunday at home.

Gertrude Van Loo, '02, received a visit from her mother and aunt Friday and Saturday.

Albert Strong, with '03, is now a machinist with the Thomas B. Jeffrey Co., Kenosha, Wis.

It is expected that the new catalogue will be ready for distribution the latter part of this week.

President Snyder addressed the graduating class of Mulliken high school Thursday evening.

The milk received by the dairy has increased largely since the milk route was first in operation. The amount handled at the present is 4,700 pounds.

The attic of the botanical laboratory is about ready for use. It is being ceiled with southern pine and when done will afford a considerable space all well lighted.

Foreman Henry Sherman was appointed, Thursday of last week, deputy sheriff, his jurisdiction extending over the College grounds and immediate vicinity.

H. R. and L. M. Kingsley were favored with a visit from their mother the latter part of last week. She was accompanied by Mrs. Strong, mother of A. Strong, '03m, and W. Strong, '05m.

The Hesperian society elected the following officers for the fall term, 1902: Pres., Burr Wheeler; Vice-Pres., G. N. Cardozo; Sec., J. P. Knickerbocker; Treas., M. W. Tabor; Marshal, T. B. O'Dell; RECORD Editor, M. P. Willett.

Jothal Allen, agriculturist for the Alma factory, lectured before the beet sugar men last Thursday.

Secretary Brown has assumed charge of his work, his term of office beginning with this month.

The Union Literary Society have elected officers as follows for the fall term: President, Tower; vice president, Priest; secretary, Hunt; treasurer, Hall; RECORD editor, R. T. Stevens; marshal, F. L. Johnson.

The juniors and seniors played off their game of ball Thursday afternoon, the juniors winning by the score 14 to 7. Batteries: for juniors, Yates and Kingsley; for seniors, Millspaugh and Francisco.

There was rather a lively time for a while Friday at the end of the street car line. The large car jammed into the terminal pole, the motorman being unable to put on the brakes quickly enough. Fortunately no person was injured and but slight damage was done to the car. After a short delay cars were running on the regular schedule.

Photographs have recently been taken of the white pine trees planted in '96 on the extreme east part of the College land. The tallest pines are now two and one-half feet high. When planted none of the trees exceeded a foot in height. The box elders that have been planted between the rows have proved of value in keeping the pines from branching out. For the past two years the annual growth has been two feet nine inches.

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## ABOUT THE CAMPUS.

Last Friday evening, Major Vernon gave a very enjoyable banquet to the fourteen military officers. Other guests were President Snyder, Colonel Shubel, Captain Durst, and Secretary Bird. A six course dinner was served after which toasts were given by all the guests present.

Miss Gilchrist received a visit over Sunday from her friend Miss Katherine Dickens Cole, Director of School of Elocution of Illinois Woman's College at Jacksonville. Miss Gilchrist gave a reception Saturday evening in Miss Cole's honor. During the evening Miss Cole gave two readings which were received with genuine pleasure.

## HORT. CLUB MEETING.

Miss Mary Ross gave a review of Bailey's Cyclopaedia of Horticulture. After enumerating the distinct and valuable features of the work, and telling how the book had been made, she gave the following data which should be of interest to every botanist and horticulturist:

There are 2255 genera described: There are 10,000 (approximate) species of plants cultivated in America. Of these 9,181 are strictly horticultural plants; 2,772 species are native of North America, of which 2,419 came from the United States; 2,068 species came from Asia; 1,127 from Europe; 1,401 from South America; 779 from Africa; 537 are horticultural varieties; 377 came from Australia; and 109 are from two or more continents—cosmopolitan.

The number of orders represented is 125. The most prominent of these with the number of genera in each one:—Leguminosae 114; Orchidaceae 105; Compositae 103; Liliaceae 90; Gramineae 47; Roraceae 43; Amariyllidaceae 27; Umbelliferae 25; Ranunculaceae 20; Cucurbitaceae 14.

The review constituted one of the best papers given the Club this year. The collecting of the data given above represents no small task.

## M. I. A. A. PROGRAM.

There is given below the program of events for the annual M. I. A. A. field day at Albion, June 6 and 7.

The meet begins Friday morning at 8 o'clock with the five-mile bicycle race, held at the fair grounds, following which the following events will take place at Winter-lau Field.

Dashes—100-yd., 220-yd., 440-yd.

Long Runs—One-half mile, one mile, two mile, one mile relay race.

Hurdle races—120-yd, 220-yd.

Jumps—Running hop step, running high, running broad, standing broad.

Weight events—16 lb. shot put, throwing sixteen lb. hammer, discus throw.

Bicycle races—One mile, one-fourth mile.

Pole vault.

Club swinging etc.—Club swinging, individual; club swinging, class; horizontal bar exercises.

Tennis—Ladies' singles, ladies' doubles, gentlemen's singles, gentlemen's doubles.

Wrestling—Heavy weight, middle weight, welterweight, light weight, feather-weight.

## TENNIS.

The Tennis tournament at Albion will begin Thursday at 1 p. m.

Mr. Horton will play singles for M. A. C. and Messrs. Horton and Willett doubles.

In singles we first meet Hillsdale, regarded as the strongest opponent and should we win our chances for first place are excellent. If we loose we do not even get second. In doubles we meet Olivet first, a victory will bring us directly into the finals and give us a second anyway.

In ladies' tennis Misses Nolan and Hadley will represent M. A. C. Our chances in single are slight but with fair success, we should secure a second in doubles. Scores during the week were: Horton won from Willett Monday, 8-6, 6-1, 6-4; Tuesday, 8-6, 7-5. Willett won from Judson Tuesday, 6-3, 2-6, 6-3, Thursday, 6-4, 5-0. Willett and Horton won from Judson and Fall Thursday 6-4, 6-2.

## EXCHANGES.

"The study of trees confined to twigs, leaves, and fruit brought into the schoolroom will not teach the child how the oak, the elm, the cottonwood, the magnolia grow in woods and parks."—D. Large, St. Paul, Minn.

"There is a wonderful difference between the knowledge of contact and that which comes from reading about a thing; it is as solid gold compared with paper tinsel." Jacques W. Redway, N. Y. W. J. B.

The Michigan Farmer of recent issue, in discussing the question of agricultural education, says: "The antiquated notion that education leads away from the farm is well-nigh exploded, and the more sensible, rational idea that the farmer can succeed better on account of education, and if of the right kind will feel attracted to the farm, is fast taking its place.

*What influence in college life has proved of most force in my later life?*

"My habits of work formed there. The student himself does the educating, acquires the information or trains his mind. The best school and teacher must fail, however, unless the student does his part. His work determines the outcome; the school and the teacher cannot determine it. So I answer: The habits of work formed in college have proved of more effect in my after life, than any other influence of my college life."—JOSEPH B. DAVIS in Michigan Alumnus.

"One strong influence that I remember from my first college day was the active association and competition of so many new and strange associates, all apparently striving for knowledge. This gave me an incentive for work. Of real practical utility, subjects which have been of great value to me, were the studies summed up under the head of physical sciences, such as chemistry, physics, botany, zoology, histology, and bacteriology. If I were to take my university course again I should devote the bulk of my time and energy to these branches. Nothing in my college life tended to decide my choice of a profession."—WM. C. BRAISTED, P. A. Surgeon, U. S. N., in Michigan Alumnus.

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