

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 10.

LANSING, MICHIGAN, TUESDAY, OCT. 25, 1904.

No. 6

DEBATING PRELIMINARIES.

At a recent meeting of the Debating Club, a committee was appointed to arrange for the debates to select a team to compete with Ypsilanti. The matter will be conducted as it was last year, and the committee is now preparing communications to the different societies. Meanwhile, all persons, members of societies or not, desiring to enter the preliminaries, are requested to send their names in to the professor of English on or before Oct. 31.

Signed COMMITTEE.

ALBION 4.—M. A. C. 0.

In one of the best played and most exciting games ever played in Michigan and before the largest crowd ever gathered to witness an M. I. A. A. game M. A. C. went down to defeat Saturday before Albion by the score of 4 to 0. M. A. C. went to the game by special train 600 strong, and came away feeling, while defeated fairly and squarely, it was only by the assistance of the weather man. Albion with her team of 200 pounds and the field a sea of mud, while unable to cross our goal line succeeded in getting near enough to score on a place kick from the 25-yard line.

The ground gained by each team was about equal, Albion having the advantage in the first half, while the last half was mostly fought in Albion's territory. Albion was in scoring distance just twice, once, the first half reaching the 25 yard line, and again the second half when they scored their place kick from the 28 yard line. Three times M. A. C. was in striking distance. The first time the ball was lost on downs on the 20 yard line, the next time on a quarter back kick, and the next time on a fumble.

M. A. C.'s light but fast back field could not get started in the mud and we will always believe with a fast dry field suited to our style of game we could have defeated them by three or four touchdowns.

M. A. C. won the toss, Albion kicking off. Small then returned the ball twenty yards, Hahn, Kratz and McKenna gained 12 yards in three downs, when Conville secured the ball on a fumble. M. A. C. held and Albion punted to Small. McKenna soon returned the punt, gaining twenty yards on the exchange. The ball see-sawed back and forth in the mud until Hahn got away for a forty-yard run to Albion's 30-yard line. Kratz made four yards, McKenna three, but Albion held on to her 20-yard line, the ball going over. The half finally ended with no score for either side.

M. A. C. kicked off in the second half and Albion after several exchanges got the ball to the 25-yard line. M. A. C. threw them for a loss twice when Albion tried a place kick the ball going between the posts for the only score of the game. The balance of the half M. A. C. had the advantage. McKenna ran 35 yards on a pretty criss-cross from

Holdsworth, Brown, Albion's recruit from the High School teaching force preventing a touchdown.

Hahn and Kratz made several good fighting gains in this half and Doty proved a star in backing up the line with his good tackling.

For Albion Conville was the star ground gainer. In fact Conville, Bliss, and Frye all of them 200-pounders were the only men to gain for Albion.

M. A. C.	The Line Up.	Albion.
McDermid	C.	Collar
Case	L. G.	Leonard
Fisk, Boomsliter	R. G.	Merrill
Bell	L. T.	Conville
Kratz	R. T.	Frye
Holdsworth	L. E.	Brail
Ashley	R. E.	Penzotte
Hahn	L. H. B.	Black
McKenna	R. H. B.	Bartell
Doty-Burk	F. B.	Bliss
Small	Q. B.	Brown

The defeat Saturday, while it gives Albion a better start for the cup, should make us redouble our efforts to win. Each team still has four games to play, and as Alma, Oliver and Kazoo are all exceptionally strong, and as the cup goes to the team with the highest percentage of victories, the road to the championship is still a long one. We know from the game Saturday we are as good as Albion, so let us pull together from now on and win the cup. The second cup game will be played Sunday when Hillsdale comes here, the game being changed from Monday as originally scheduled.

OLIVET RESERVES VS. M. A. C. RESERVES.

In a game that was one way most of the time, the M. A. C. second team won from the Olivet reserves Monday night by a score of 15 to 0. In the first half M. A. C. made her first score after she had kicked to Olivet and held her for downs on the first three attempts. Another touchdown was made this half. In the second half Olivet played a stronger game and held the farmers for downs several times. The features of the game were the good gains by Bates, Burdette, and Smith of the M. A. C. Bates was good for from 5 to 15 yards nearly every time he was given the ball. Once Smith fumbled the ball, and after running back after it, then made three yards around Olivet's left end. Olivet was much lighter than M. A. C., but put up a plucky fight to the end.

THANKSGIVING MILITARY.

The Thanksgiving military will be held on Thanksgiving evening. Admission to students \$1.00. No non-uniformed men will be admitted. This does not include former students, sub-faculty, fire department and invited guests. These will be admitted for \$1.50. In case the new uniforms do not arrive in time the new men will be allowed to come in citizens' clothes. This rule concerning non uniformed men will hold throughout the year.

Officers Association.

Y. W. C. A.

The meeting Thursday evening was led by Helen Andrews, who gave a very interesting and helpful talk on the topic, "Praise."

UNION LITERARY PARTY.

The Union Literary Society, to break the monotony of literary work, gave a party to their lady friends on last Friday evening, October 21st.

The rooms were prettily decorated with the golden leaves of the oak and maple. The sweet strains of music soon started everyone on the "merry-whirl" which continued to the hour of eleven when all departed, having pleasantly enjoyed the evening, and regretting much that it could not last a few minutes longer. Prof. and Mrs. Babcock and Dr. and Mrs. Gordon kindly chaperoned the party.

Y. M. C. A.

Chas. D. Hurry renewed his popularity with the M. A. C. men by giving a short talk in the mass meeting Thursday night and by an address following this meeting. After the mass meeting about 200 men remained to hear Mr. Hurry's discourse on "Men of Metal" which produced an effect upon everyone present. Subscriptions for the International Work to the amount of \$21 were then received.

The Sunday morning service was led by Rev. W. A. Minty of Lansing. The congregation was not so large at this meeting owing to the strenuous life of the students in Albion the day before.

Dr. Waterman's talk in chapel Sunday night on "The Chambered Nautilus" was appreciated by everyone. The responsiveness of the audience showed what an interest there was in every thing said. These meetings are well attended, the chapel being filled every Sunday evening.

Mr. Choyei Kondo from Japan will give a lecture on "Christianity in Japan" next Sunday evening in the chapel. The Associations are very fortunate in securing the services of Mr. Kondo and are assured of entertainment and instruction from him. He receives the highest recommendations from Dr. Dickie and Prof. Goodrich of Albion.

R. E. H.

'04.

W. F. Millar, of Ray Center, stopped at the College on the 18th on his way to Detroit, where he will work on the United States lake survey.

'00.

L. Appleyard recently gave the Senior class in the mechanical department a very interesting talk on steam turbines. Mr. Appleyard is connected with the turbine department of the General Electric Co., of Schenectady, N. Y., instead of Philadelphia as stated in our last week's issue.

ALUMNI.

'79.

Orrin P. Gulley has been nominated for register of deeds on the republican ticket in Wayne county by a good majority.

'85.

G. C. Lawrence has changed his address from Oraibi, Ariz., to White-rocks, Utah.

'90.

A correction.

In our issue of October 18 we stated that Geo. J. Jenks was at Philadelphia. The name should have been Geo. S. Jenks, as Geo. J. is at Benton Harbor, Mich.

'92.

L. C. Brooks visited the College the past week. Mr. Brooks is at the Cramp Shipyards, Philadelphia. His work is the testing of motors on board the battle ships built at the above yards. There are 146 separate electric motors on each battleship built at the above yards and after the design of the motors is completed Mr. Brooks makes the test and also any necessary criticisms. The battleships Colorado and Pennsylvania have just been completed, the Tennessee will be ready in about a month, and work has been started on the Mississippi and Idaho.

'94.

C. J. Foreman is professor in charge of the Department of History and Economics at the Shattuck School, Faribault, Minn. Mr. Foreman was at one time assistant librarian at the College and wishes to be remembered to all of his friends at M. A. C.

'95.

In our last issue we stated that H. R. Smith had accepted a position on *The Twentieth Century Farmer* which would imply that he had resigned his former position. Mr. Smith, while editing the feeder department of the above publication, retains his position as Professor of Animal Husbandry at Lincoln, Neb.

Llewellyn Reynolds, with '95, who for the past six years has been engaged in mining and metallurgical work is now interested in a new concern which is about to engage in the manufacture of stearic acid glycerine and the incidental by-products of the same. His address is 22 Webb St., Hammond, Ind. Mr. Reynolds states that his father, H. G. Reynolds, who for several years was secretary of the college, and his two sisters are in France where they expect to remain until next summer. He also states that his father's health has much improved during the past year.

R. L. Reynolds, who was at one time seriously threatened with tuberculosis, has regained his health and is now in business at Los Angeles, California.

'03.

Alice Hadley is teaching near Artesian, S. D.

THE M. A. C. RECORD.

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COLLEGE YEAR BY THE
MICHIGAN STATE AGRICULTURAL COLLEGE

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TUESDAY, OCT. 25, 1904.

IT is very much desired that as far as possible all matter for publication be in on Saturday morning of each week. This is quite necessary in order that the paper reaches the College on Tuesday evening.

THE following from a report by Willis E. Moore, chief of the U. S. Weather Bureau, will be of interest, especially to those whose belief it is that our climatic conditions are changing rapidly:

"Notwithstanding the popular notion to the contrary, there is reason to believe that there has been no appreciable change in the climate of any large area within the period covered by authentic history. Changes in the surface of the earth may be noted within the lifetime of an individual, that are thought to prove that a change of climate has taken place, when the alteration may be due to the persistent action of freezing, thawing, rainfall, and floods. Great changes have occurred during geologic periods, but it is the opinion of the writer that they take place so slowly that thousands of years must elapse before their effect is measurable."

THE M. A. C. Entertainment Club announces the Fifth Series of Entertainments to be given in the Armory for the season of 1904-05, as follows:

Rev. Sam P. Jones, Friday, Nov. 4th.

Cleveland Ladies Orchestra, Tuesday, Nov. 15.

Montville Flowers, Friday, January 6.

Lorado Taft, Tuesday, February 21.

Dr. H. L. Willett, Monday, March 20.

Dunbar Male Quartette and Bell Ringers, Monday, April 10.

An outline of the entertainment was given in the RECORD of Oct. 4 and perhaps little need be added to what has already been published. It is believed however to be one of the best courses ever offered to college people and no student can afford to miss any one of the numbers. The price of the course (1.00) is certainly very reasonable for six such entertainments and it is to be hoped that the Armory may be well filled on each date. Each dormitory

will be canvassed by those having this work in charge and tickets will also be on sale at the Library.

'89.

Alex. Moore, of Port Huron, is the Republican candidate for prosecuting attorney of St. Clair county.

'97.

Born to Mr. and Mrs. L. S. Munson on October 8, a nine-pound son. Mr. Munson is in the Contracts Laboratory, Department of Agriculture.

'03.

Ray R. Tower expects to leave Colorado Springs for the East on Oct. 29.

'03.

O. D. Dales, with '03, is working for Wallace C. Johnson, hydraulic engineer, Niagara Falls, N. Y.

With '04.

F. E. Mangold is teaching in the Newell River View Academy at Portland, Oregon. He has for his subjects physics, chemistry, algebra, geometry, drill and football. Mr. Mangold is enjoying his work very much.

Everyone should hear the address next Sunday evening by Choyei Kondo of Japan.

H. F. Murray, '18, has been compelled to leave college for a time on account of weak eyes.

The M. A. C. Foresters meet this Tuesday evening. All students interested in forestry are expected to be present.

The forestry department is in receipt of a donation of 357 two-year old white pine seedlings from Morbec & Sanford. These were collected from natural seeding. They have been planted in the nursery where they will be cared for until large enough to put into the field.

In the entering class the following states and provinces are represented as follows: New York 11, Illinois 3, Texas 2, California 2, Indiana 2, Kentucky 1, Pennsylvania 1, West Va. 1, Missouri 1, Cuba 1, and the Philippine Islands 6. Of those entering from New York, 7 were from Buffalo.

On Friday, October 7, Mrs. John Wellman, mother of Instructor Bertha Wellman, died at her home near the College. There are many persons about the College who came in contact with the beautiful life of Mrs. Wellman. Her's was a life to be admired, being quiet, yet full of service to those about her. It was the life of one who devoted herself to others, never thinking of self. It was this that made her so beloved by all who knew her, and make us sorrow with those who grieve most for her.

The junior machinists returned from Chicago last Sunday evening and Monday morning and report a very successful trip. The following are some of the plants visited: The Illinois Steel Company, Metropolitan Power Plant, Chicago Edison Company and the Lewis Institute. There were thirty-seven students in the party. On arriving in Chicago they were surprised at the depot by a reception committee consisting of F. G. Carpenter, S. W. Smith, and C. W. Millsbaugh of '02, and E. S. Harrison and J. A. Fraser of '03.



THE RECENT WORK OF MR. BION J. ARNOLD.

It is especially desirable that the people of this neighborhood and particularly of the College should have an intelligent understanding of the recent accomplishments of Mr. Bion J. Arnold and what the experiment he has been making means. Mr. Arnold was born at Grand Rapids and received his early education at Hillsdale College, taking a second degree from Cornell University and now is an electrical engineer of world wide reputation. His line of work in general is electrical power distribution, but his work in particular during this last summer, which was accomplished in this neighborhood, was along the line of propelling cars by alternating current. Most electric cars now-a-days are supplied with direct current of 500 volts for their propulsion, and at that voltage the distance is limited to less than 10 miles at which cars can be run. It has long been the desire of Electrical Engineers to produce a motor which can be propelled by alternating current and be suitable for driving electric cars. In 1896 and 1898 Arnold was the first man to produce and even build roads using alternating current for transmission and rotary converters in sub stations along the line to change the alternating current to direct current to supply the road at points along the line. Now that has become quite the customary way of extending electric roads over long distances. While engineers generally were longing for the much sought alternating current motor for propelling trains Mr. Arnold suddenly announced in 1902 that he was building a locomotive which was intended to do the work using an ordinary alternating current motor and in an auxiliary manner compressed air. This system Mr. Arnold has been developing since 1902 from his private resources.

This announcement in 1902 compelled the companies who build the electric cars in common use to devise some means for doing the same thing if they were to remain in the front in such work, and immediately two companies, viz., the Westinghouse Co. and the General Electric Co., began experiments to produce a motor for this purpose. The work of Mr. Arnold in producing his electric motor is of special interest to us because he was working as a pioneer, alone, unaided by any big corporation to furnish

money, whereas the other companies were driven to it as a matter of dollars and cents and to save their reputation. After building numerous experimental motors, Mr. Arnold succeeded in producing a very good locomotive last fall, and on the night before it was to be publicly tested, the building where the locomotive was located here at North Lansing, took fire and was burned. In the meantime these two companies had been busy.—one of them had bought out an alternating current motor which technically was put on the market, and the second company was also busy, and is now advertising their new motor, but up to the present time neither of the companies have any roads in operation other than on their own premises.

Mr. Arnold was not discouraged by his extremely unfortunate fire, and Phenox-like built a new locomotive, which was tried this summer. The trial was made on the night of August 3, 1904, on the road running from Lansing to St. Johns, and thus Mr. Arnold operated successfully the first locomotive driven by alternating current. In 1898 Mr. Arnold took the responsibility for the success of a road using alternating current for transmission and rotary converters in the sub-stations against the advice of many prominent engineers, but immediately his success was recognized, and many roads took up the same idea, and now such roads are very common. This summer he succeeded again, in opposition to the advice of many prominent engineers in doing a thing that was never done before, and we are looking to the future with considerable interest to see how rapidly engineers will fall in line again to his lead. The 3d of August will be looked back to in the future very much as we now look back to the time when Morse first tried his electric telegraph. His experiments this summer demonstrated two facts, that alternating current could be collected from a trolley at a voltage of 6,000 volts successfully, and that the car could be controlled completely. The motor that Mr. Arnold used was not intended as a commercial machine, but merely to give an idea of what could be done. The electric locomotives of the future will be the result of the developments in which a great many engineers will share, but to Mr. Arnold will remain the distinction of having first driven an alternating current locomotive.

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A B O U T T H E C A M P U S .

Several of our students will go home to vote.

Work on the new power house chimney has been resumed.

Mr. Hiram Cody, 5-yr. ag. spent Sunday at his home in Chicago.

Mr. H. K. Patriarche, '02, was a visitor at the College on Saturday.

Mr. Clifford Barlow, of Washington, visited his sister Miss Florence Barlow '07 the past week.

E. N. Parsons, one of the trustees of Albion College, was a visitor at the College on Thursday last.

Mr. Newman is doing considerable grading and otherwise improving the lots on his addition west of The Delta.

Over 500 tickets were sold for Albion last Saturday. Who wouldn't be willing to give such a crowd a 50c rate?

Miss Blanche Covell, sp. 1902-03, was the guest of her sister, Miss Bess Covell, for a few days the past week.

Dr. H. W. Landon has purchased Dr. Waterman's residence on the Delta. He will take possession January 1st.

Mr. O. L. Ayers has recently sent the Horticultural department some very fine fruit grown in Southern Tennessee.

J. V. Kinsey, with '98, was a visitor at the College on October 19. Mr. Kinsey is a photographer at Grand Marais, U. P.

The horticultural department is putting about 800 bushels of No. 1

apples in cold storage in Lansing. These are all packed in bushel boxes.

The grading about the Women's Building is about completed, and the work on the branch tunnels east of the Library will soon be finished.

Olivet won from Kalamazoo last Saturday 5 to 0. Ypsilanti defeated the Flint Mutes 18 to 11. The M. A. C.-Albion game was the only cup game played.

Secretary Brown recently received samples of the potato crop grown on his farm near Schoolcraft this year. One of the potatoes sent weighed 44 ounces.

Quite a number of our students received short visits from parents and friends who were in attendance at the meeting of Odd Fellows and Rebeccas last week.

While it is not just exactly the proper thing for an umpire to stand in the way of each formation and pass the time away, still it helps a whole lot—sometimes.

Secretary and Mrs. Brown left October 20 for a visit with friends at Plano, Ill., after which they will spend a few days at their former home, Schoolcraft, Mich.

The work on Mr. Champe's new building is moving along very nicely. Mr. Champe expects to install a bakery and meat market when the building is completed.

The band wagon was one of the features at the Albion game. While there were but two instruments to play, and no one had ever seen the music (?) before, yet Messrs. Smith

and Parker, who are quite musically inclined, were soon playing as they never played before.

Among former students seen at the Albion game were R. L. Yates, '03; Frank Phillips, '03; D. H. Stacks, with '04; E. O. Elmer, '03; Frank Wilson, with '06; J. A. Dunford, '02.

All persons who go to the city to vote will be required to register before date of election. Those who vote in Meridian, and have once registered, will not be required to do so this fall.

While we wheelmen enjoy the privilege of riding on the cement walks about the Campus, it should be understood that those on foot have first right, and in no case are supposed to give the walk for those who are riding.

Judging from the noise it made at the Albion-M. A. C. game, Mr. Crawford's new crackerjack machine is certainly a success. A redeeming feature of said machine is that it can root for hours and not get hoarse.

A staminate plant of hemp in the botanic garden measures fifteen and one-half feet in height. This plant was photographed during the past summer by L. H. Dewey '88 of the Dept. of Agriculture, Washington, D. C.

Mr. C. H. Goetz, from San Jose, California, has entered College with the expectation of completing the forestry course. Mr. Goetz was in the Philippines three years. He will address the M. A. C. Foresters

at their next meeting, Nov. 1st, on Philippine forests.

A wheel, belonging to Mr. Balbach, was taken from near the mechanical building on last Wednesday. While it is perfectly proper to borrow a machine, it is also very proper to return same within a reasonable length of time.

The sub-faculty football team have completed their organization and now issue an open challenge to any or all class teams for a game. For further particulars see W. R. Shedd, manager.

D. L. Colvin of Chicago, national president of the intercollegiate prohibition association, spoke in Chapel on Monday noon on the attitude of the American student of today toward the saloon and other kindred evils.

Beginning with this week only one company will drill in the Armory each evening as follows: Co. A, Monday; Co. B, Tuesday; Co. C, Wednesday and Co. D, Thursday. This is made necessary on account of the dark evenings, it being impossible to drill out of doors.

The work on the tunnels has moved along quite satisfactorily the past few weeks. The branch lines are finished except to the Horticultural Building and Wells Hall. The line to the Armory, which was completed as far as the Physics Laboratory some time ago, is just now at a standstill, and the work is being pushed forward on the Green house line, which is nearly finished.

Professor and Mrs. Bogue entertained the forestry students at their home on the Delta Friday evening, Oct. 21. About fifteen young men were present to enjoy the games, refreshments and the contest which consisted in writing the names of some twenty leaves. The first prize was a big pumpkin pie and the booby prize a tiny one. All present report a fine time.

Two athletic meetings were held the past week, one on Tuesday and the other on Thursday evening. The latter was presided over by A. J. Anderson. Two selections were played by the band while the crowd was gathering. The object of the meeting was then stated, and Mr. Fryman acted as yell master and several new yells were practiced. It was voted that the College Band accompany the team to Albion. Short talks were given by Mr. Brewer, Mr. Hurst and Mr. Hurry, and best methods of systematic rooting discussed.

A specimen consisting of the lower jaw of a mammoth was recently brought to the museum to be named. It was found in the bed of the Grand River not far from Eaton Rapids. The jaw was that of a rather small individual, probably a female, and was not in a very good state of preservation. It contains two large grind teeth, one on each side. The grind surface of each tooth was about five by two inches. The mammoth is a species of an extinct elephant closely related to the mastodon and about the same size, an average specimen being perhaps a little larger than the Indian elephant. It is a much rarer species in this part of the country than the mastodon. We have numerous good specimens of mastodon teeth in the museum from Michigan, but no specimen of any part of the mammoth in this vicinity. Both the mastodon and mammoth have been extinct for perhaps ten thousand years. It seems that the mastodon outlives the mammoth, at least in this part of North America. Prof. Barrows hopes to obtain this specimen eventually.

'97.

"I enclose herewith one dollar for which please credit me with two years' subscription. Having neglected a former request for news I will try and comply now late as it is. This summer while at St. Louis I ran across E. C. Green '97, now of College Station, Texas. He was acting as juror in the horticultural department and taking some photographs of some of the striking features in the landscape gardening effects about the grounds.

E. Dwight Sanderson '97, has left his work in Texas to accept a more desirable place, New Hampshire, as professor of entomology.

J. B. McCallum with '98 was recently "nominated by acclamation for Register of Deeds" in Oceana Co. Mich., a position which he has held the past term I believe.

For myself I am Associate Professor of Dairying in Purdue University and head my department, (dairying); secretary of the State Dairy Association, and superintendent of Indiana's dairy exhibit at St. Louis. The latter has kept me particularly busy the past few months and the former two will afford an outlet for what ever of ability and energy I can command during the next few months, especially as the Dairy Association is planning for a

larger and more useful work the coming year.

In my department we are operating a regular creamery plant, making from five to as high as eleven thousand pounds of butter a month this summer. While the make in winter is somewhat less we still have ample time for first class instruction which is of course our reason for operating the year round. Our product is nearly all made from hand separator cream shipped to us by interurban and steam railroad from a distance within 30 miles. Our creamery course will begin the last of this month and the dairy course after the holidays.

Have done a good deal of institute work the last two years. There seems to be a growing interest in the dairy affairs in our state. This summer I have discussed before several county teachers' institutes the relation of the country school to country life. The manifest interest and the close attention given the subject has suggested to me the opportunity for those young men (and women) who are qualified by training, experience and taste for the teaching of the fundamental principles underlying agriculture in the rural schools. The rapidity with which the idea, that our rural schools must in some way contribute more to the young man's equipment for life's work is gaining ground, suggests an almost new field for the agricultural graduate students. One of our instructors spent a whole week at a teachers' institute, and so well did he present the agricultural proposition that at the close of the week he was asked to name a man to teach agriculture in the high school of one of our large towns. Telegrams were exchanged and the position accepted by one of our Purdue graduates. Had a second man been wanted he would have been hard to find. Not every graduate, nor every farmer, nor every teacher can successfully handle this new problem; the way is not yet worked out, and much original work must be done before a system is perfected. I wish more of our young men on the farms, and more particularly those who are leaving them for mediocre positions in town might but realize the opportunities that are open to them through the doors of the agricultural colleges, when to their early farm experience they add the trained head and hand that comes from the college course, but remembering that the course is a means to an end, not an end in itself.

But 'tis men that are wanting, not opportunity, from farm hands to bank presidents.

At our state fair I had charge of a working dairy, with four of our former students carrying on the several operations of the dairy while I explained the work, answered questions and outlined the work of the agricultural courses. Our Fair Board have provided ample room for the work, with an amphitheater seating several hundred people facing our space.

The curious, the tired, and those seeking information will spend from a few minutes to several hours watching the work, listening and asking questions.

With best wishes for the prosperity of M. A. C. and scant expression of my appreciation of the RECORD and its weekly "news nubbins" I am

Yours truly,
H. E. VAN NORMAN, '97.

IN 1734 POOR RICHARD SAID:

"Want of care does us more damage
than want of knowledge."

Continue to pursue Knowledge like a *Jap* after a *Russian*, and to make assurance doubly sure, let the old MUTUAL BENEFIT take care from you, and for you and of you. It costs so little while you are young and strong; it means so much when you need it most.

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