

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 9.

LANSING, MICHIGAN, TUESDAY, FEB. 16, 1904.

No. 21

NOTICE.

The teachers and students of the Women's Department will give a Washington's Birthday Party on the evening of the 22d. The students and the members of the faculty are invited. The young women at M. A. C. are well known for their ability to entertain. They know how to interest visitors and how to make people feel at home. No one should miss this opportunity of spending a pleasant evening.

WASHINGTON'S BIRTHDAY EXERCISES.

The regular work of the college will be suspended on Feb. 22, and general exercises will be held in the Armory. Hon. J. B. Moore, Chief Justice of the Supreme Court of Michigan, will deliver the address. Students and members of the faculty are invited to be present. Arrangements are under way to have the military department take part as an organization. All should unite in making Washington's birthday a memorable event at the college.

MAJOR VERNOU LEAVES.

The United States War Department has relieved Major Vernou from duty at the M. A. C., and has detailed him as military instructor of the Michigan National Guard for a period of four years. Major and Mrs. Vernou have made a host of friends at the College and in Lansing. All regret their departure. They will move to Ann Arbor in the spring.

Major Vernou came to M. A. C. in the fall of 1900. He has done much to raise the standard of the military department at the College and has met with decided success. The government inspector last spring pronounced the M. A. C. battalion the best drilled cadet battalion in the state. The interest among the students has been strengthened and the general morals improved. The major is a civil war veteran and saw active service in Porto Rico and Cuba. The best wishes of M. A. C. go with him in his new field of labor.

HORTICULTURAL CLUB.

The Horticultural Club met last Wednesday evening. As usual the Club was favored with an excellent talk, this time by Paul Thayer, '00, of Benton Harbor, on Packing and Marketing Fruit.

He seems to think his location is not the best although only 60 miles from Chicago, the great market of the West; the disadvantage is that a great many farmers and growers ship their fruit directly to Chicago and so many times they send inferior fruit, which brings all the fruit from that vicinity into disrepute.

Strawberries, black raspberries, blackberries and cherries, are packed in 16-quart crates while the red raspberries are packed in crates of pint

baskets. Pears are packed in 10-peck barrels with double facing. Early peaches are put up in fifth baskets; canning peaches are put in bushel crates. Apples are generally sold in the orchard and packed in 10, 11 and 12-peck barrels; these packages make Berrien county apples sell at a discount in Chicago. Grapes are packed in 5 and 8-pound baskets.

The only local market is the canning factory. Those shipping to Chicago send by boat.

Some growers have customers in several Indiana towns, to whom they ship a good deal of fruit, especially peaches.

Fruit growers' co-operative associations seem to be a failure in Mr. Thayer's vicinity.

Mr. Philips, '02, one of the charter members of our Horticultural Club, was present at the last meeting and greeted the club with a few words of cheer.

Y. M. C. A.

Mr. J. A. Fisk led the Thursday evening prayer meeting. Subject, "The barren fig tree." The discussions were very interesting and contained many helpful suggestions.

Rev. P. A. Baker spoke in chapel Sunday morning to an appreciative audience. The discussion was along the line of temperance and civic reform. The service was fairly well attended.

Dr. Waterman spoke in chapel Sunday evening before a fairly large audience of young men. The address was along the line of personal purity, was intensely interesting and of great value practically.

H. N. H.

Y. W. C. A.

Miss Grace Smith led the Thursday evening meeting. The Bible lesson was that of gentleness. We have the example of Christ to help us. Eph. 4:30-32 and Col. 3:12-15.

Mrs. Waterman conducted the Sunday evening meeting. The lesson was from Luke 18:18-30, which teaches the necessity of total surrender to Christ. The leader gave an interesting and helpful talk on the subject.

A. C.

ATHLETICS.

The M. A. C. basketball team played a very close game at Grand Rapids with the Athletic Club last Friday evening. At the end of the first half the score stood 9 to 4 in favor of Grand Rapids. In the second half, M. A. C. played better ball and won the game, 14 to 13. The boys received excellent treatment.

An in-door meet was held in the college armory on Saturday afternoon. Captains McKenna and Moon each selected 19 men for the contest. Two relays were run, both being won by McKenna's team. The different jumps, shot-putting, hurdling, pole vaulting, etc., were the principal events. The final

score was 60½ to 40½ in favor of McKenna's team. Those making the most points for McKenna were Graham, Small, Steadman and Burrell; for Moon, Cox and Manning. Both McKenna and Moon did excellent work.

A consolation basketball game was played between the sub-freshmen and sophomores. Both teams have been defeated in the class series and are out of the race as far as championship is concerned. The sophomores won the game 14 to 4.

The interest in general athletics continues strong. Wrestling is receiving a good deal of attention and some very promising young men are taking lessons.

LIST OF SUGAR BEET STUDENTS.

Edw. A. Scheerer, Kewadin
Walter Small, Charlevoix.
Edw. Kienbaum, Bay City.
F. C. Miller, Romeo.
Chas. A. Millinger, St. Louis.
H. L. Burnett, Charlevoix.
S. W. Moon, Howle.
Earl E. Miller, Charlevoix.
M. C. Chapman, Belding.
M. J. Kirk, Lansing.
Arthur Humphrey, Saginaw.
Waldo Curry, Tawas City.
Carl W. Hyde, Rockford.
F. M. Bullinger, Cement City.

These are the new students enrolled for this work. Others will take the work at the close of this term.

ROUND-UP, FEB. 23-26.

Tuesday afternoon and evening will be taken up with conferences in the college chapel, and the Dairy-men's Association which will meet in the senate chamber.

Wednesday forenoon and afternoon there will be joint sessions of the Institute and Dairy-men's Association. In the evening there will be a good roads session.

Thursday will be devoted to farm crops and live stock with a forestry session and reception in the evening.

Friday forenoon there will be a joint session with the Bee Keepers' Association and with the Horticultural Society in the afternoon. The evening will be devoted to rural school problems, illustrated with stereopticon views. Half fare rates will be given on all Railroads on Tuesday and Wednesday with a privilege of return any day of the week.

With '03.

M. P. Willett has been assistant chemist in the Sugar factory at Garland, Utah. He visited M. A. C. while on his way to New York to study methods of refining sugar. He thinks the future of beets in Idaho, Utah and western states is very promising. Labor is scarce. Most of the work is done by Japanese or Indians. He says the Japs are poor workers and that the Indians, especially the squaws, are far superior.

ALUMNI.

'76.

J. E. Taylor is engaged in general farming and poultry raising at Greenville, Mich. He has made a specialty of Plymouth Rocks for the past seven years. He breeds for size and quality of meat. One of his cockerels weighs 15 pounds. Mr. Taylor writes many articles for poultry journals and has lately refused an offer from Storrs, Connecticut, to manage the poultry department. He was a pleasant caller at M. A. C. last week.

'88.

Geo. L. Teller, chemist for the Columbus laboratories of Chicago, has recently received a patent on a new baking powder. The products of its decomposition are table salt and the solids of skimmed milk. It makes a biscuit of excellent flavor and leaves no bitter taste, as do so many baking powders. It is a compound containing a mixture of milk protein, H Cl and Na₂ CO₃ in lax combination. It is dry and powdery. Upon the addition of water, Na Cl and CO₂ are the principal products. The powder is harmless in its physiological action and can be made to compete with others in price.

'89.

Howard E. Weed has transferred his headquarters as a landscape gardener from New York City to Chicago. He called at the College while on his way to his new location.

'90.

W. J. Meyers of the Department of Mathematics of the Colorado Agricultural College, is in Lansing as an expert witness in the suit of the Michigan Central against the State of Michigan.

'91.

Pres. and Mrs. K. L. Butterfield, of the Rhode Island College of Agriculture and Mechanic Arts announce the arrival of a brand new boy.

'93.

Dwight S. Cole has an article in the *American Machinist* of Feb. 4, entitled "Removing Shrink Fits." This journal is a high grade technical publication. The article has received very favorable notice from engineers and machinists. Mr. Cole is well known for his ability, resourcefulness and originality in engineering work. He has invented some very unique machines and is an expert designer. M. A. C. people look for Mr. Cole's making a fortune out of inventions in the near future.

Senator and Mrs. A. B. Cook and Mr. and Mrs. E. J. Cook narrowly escaped serious injury on Feb. 12. They were driving along the road beside a steep embankment when the horse slipped and went over the brink. The sleigh and its occupants followed suit and fell about ten feet. No one was injured beyond a severe shaking up.—*Free Press*.

THE M. A. C. RECORD.

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EDITORS.

G. MASSELINK, MANAGING EDITOR.

ASSOCIATE EDITORS:

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GRACE BRAHAM, sp. w.

D. S. UPDEGRAFF, '07m.

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TUESDAY, FEB. 16, 1904.

ADDRESS OF DIRECTOR BREWER BEFORE THE GENERAL TEACHERS' MEETING ON TUESDAY, JAN. 26.

(Continued from last week.)

of freedom lead them often into folly and vice which neither parental or collegiate restraint has ever prevented or ever will prevent. A stronger attraction must supplant that of evil, and it is this important argument which is often overlooked by those who decry inter-collegiate sports. Take the freshman. He is thrown on his own resources for the first time and must learn the hardest lesson of life,—that a man's freedom consists in binding himself. The temptations are many. The majority need nothing but to many, athletics furnish the needed incentive. In fact I believe the greatest argument for athletics is that only the clean young man can succeed.

The rule—no smoking, no drinking, no late hours is absolute. I might add that while the rule is absolute, there are young men who can fool a coach for a part of the season or perhaps a whole season, and whose natural ability will win them a place on the team, but sooner or later their faults will find them out. They will continually fail in a pinch until the coach will decide something is wrong. They are generally, too, poor students, and after one year on the team drop out of college. Take our own college for example. The man who makes the team year after year is always a clean, wholesome fellow, reliable in the class room as well as in a game. To return to the subject, I do not think the young fellow ever lived who does not, or has not, aspired to be robust, strong, in other words an athlete. You tell a young fellow it is wrong to smoke and he will do it the first chance he has. But if he knows he cannot be an athlete, if he can be made to feel that these things cannot go hand in hand with vigor and manliness it will do more for him than all the moral persuasion in the world.

The boys who go into athletics are as a rule, too, those boys who are the most active, excitement loving, and energetic, the very class

who make the most valuable men, but who need something wholesome like athletics, on which to spend their extra energy.

The most critical days of a young man's life are his high school and college days, and if athletics can carry young fellows through that period and land them with clean morals, strong bodies and a clear mind they will have performed more than their share towards the making of the man.

In conclusion I wish to devote a small part of my paper to football, rightly called the "King of college sports."

The enemies of football are many, but its supporters are in greater numbers and more ardent than those of any sport the world has ever seen. Go to an annual Yale-Harvard game. You will see forty thousand people, the president, senators, college professors, judges, ministers. In fact in all countries its adherents are found almost wholly among the educated classes.

Its enemies—75 per cent. I believe will tell you they never saw a game and the other 25 per cent. will admit they know nothing about it. I have yet to see the man who knows it as a player knows it, who opposes it as a sport. A recent canvass of prominent educators and members of the faculties of the thirty-seven leading universities and colleges in this country found 90 per cent. believers in football. To the casual observer football doubtless presents merely the spectacle of vigorous physical exercise. But a deeper insight will discover the steady development of those qualities which make the complete man—quick determination, instant obedience, self-reliance, physical bravery. The great merit of this sport, however is its practically unlimited field of tactical development. The fascinating study of new movements and combinations is never exhausted. It is this tactical possibility which has elevated football in popular esteem above all other sports. A man can play baseball and not know very much, and he can shut his eyes and run around a track and not know anything, but football demands a clear, alert mind. Very few people know anything about the inside work of football, the signals, formations etc. The ordinary college team will have from thirty to forty different plays or formations. The secret of success in football is eleven men in every play. In each of those thirty or forty different plays every man has a certain thing to do and a certain place to be in relation to his mates. Each play is designated by a certain number or combination of numbers and the instant the signal is given every man must know exactly what the play is and what his share in it is. If any one of the eleven fails the play will fail. Often times a team will go through a season continually losing with no apparent reason, but really because there is some slow thinker on the team who does his share in each play a fraction of a second behind his team-mates.

The ability of a coach to see the fault and replace such a man by one who may be far inferior physically but a quick thinker, will be marked, generally, by the ability of his team to win games. It is for these reasons that there is no such thing as professional football, played by all kinds and all classes of people as baseball is. Only students play football. The bright boy will win over the

dull one every time. In fact the great lesson of the game may be put into a single line. It teaches that brains will win over muscles.

It has been claimed that football lays undue emphasis on physical prowess, yet the benefit to the player from a physical standpoint will be found inferior to the benefits from a moral or mental standpoint. The physical benefits, however, are very real and very important. No other game calls for the use of every muscle in the body. No game so thoroughly develops the man, when it is properly played. The running, dragging, pushing, dodging, vigorous struggle, up and down the field is as well calculated to bring into activity the physical powers of the players as any exercise that has ever been invented. To stimulate inter-collegiate rivalry, nothing in the American college life approaches the influence of the grid-iron. Baseball, rowing, track athletics—all give way to the on rushing line of stalwart men in helmet and guards. The spirit is irresistible. Football holds sway for three months with a succession of contests, each play is a contest. Football demands obedience, it requires courage, it teaches coolness, it leads to a study of the disposition of men and just as it subjugates strength to thought, so does it also teach the subordination of strength to the will. The President of Princeton actively defends the sport and in an interview to the *New York World* says: "I believe it to be a wholesome sport which deserves the importance which it has attained. I've played the game myself and its the best thing in the world to teach a man to take hard knocks good naturedly."

In regard to the time consumed by football and other athletics it is a matter of record that this loss of time is in no way detrimental to the athlete's standing. Some time ago when the subject was under discussion, the faculties of Yale and Harvard consulted their books and found that, taken as a class, athletes stood a trifle higher in their studies than non-athletes. These results have since been substantiated at other institutions. *It may be argued* by those who favor the combination of dyspepsia with the mid-night oil, that these men without their athletics would stand still higher. But let us not forget that the work of the modern college is not merely to make scholars of her young men, but to prepare them in all respects to combat with the world. A few points more or less in scholarship marks is not too great a sacrifice to make for self restraint, presence of

mind, courage and obedience taught on the football field.

Accidents in football are of much less frequent occurrence than is popularly supposed. Let me quote a paragraph from a Harvard paper on this subject, "In considering the physical disadvantages possible to the player by reason of injury or injudicious training, let it be remembered that no permanent injury from football has resulted to any player in the last ten years at any of the five leading colleges of the country. This can be said of no other sport. The injuries have been mainly of a minor nature confined to ankles, knees, and noses. On the other hand, who shall estimate the advantages of the physical upbuilding of the thousands of players who have gone out from these fine colleges in the last decade."

So athletics in a college have a place of honor, I believe for themselves as well as for their indirect effect upon the college life. To make a man hale and strong is good, to make a college more amenable to discipline is better, but best of all is the establishment of an all around standard of clean morals and health, and an *esprit de corps* that carries the typical college man far towards the best goal in all his efforts.

'95.

M. G. Kains has gotten out a second edition of his book on Ginseng. The book is having a large sale. Mr. Kains has two articles in the March issue of *Country Life in America*. Flowers for every place and purpose and culinary herbs. The former is the leading article and is beautifully illustrated.

With '95.

A. T. Humphrey, who was a student in the mechanical department at M. A. C. from '91 to '93, is here this winter taking the course in Beet Sugar. Mr. Humphrey has had practical experience in nearly every phase of the sugar factory. The course in chemistry combined with his practical knowledge of mechanics will make him a valuable man for some factory.

'00.

Paul Thayer, of Bentor Harbor, was at M. A. C. a portion of last week. His apples and peaches brought a good price last year, though the crop was not as large as usual. Land in his neighborhood sells for from \$200 to \$500 per acre. A six-acre lot, containing a house and a barn recently sold for \$4,000. The soil is sandy and wouldn't support a crow were it not for the fruit.

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ABOUT THE CAMPUS.

Mrs. Ella Kedzie has been ill for several days with the grip.

Instructor Ray Tower visited his people in Belding over Sunday.

The Detroit M. A. C. Alumni Association will give its annual banquet on Saturday evening, March 5.

Prof. Barrows has had a severe cold for several days. His voice was so affected that his classes had to be cancelled.

Instructor H. Reed has been ill for over a week with grip. This disease seems to be on the increase in the college community.

Pres. Snyder addressed Farmers' Institutes at Ionia and Hastings and the Calhoun County Teachers' Association at Battle Creek on "The Ideal Education."

Dr. G. W. Dunphy is doing systematic work in the bacteriological laboratory on bacterial diseases of animals. At present he is working on hog cholera.

J. V. Wolf, Jr., the first instructor in sugar beet chemistry at M. A. C. and until recently superintendent of the Alma Sugar Factory, visited at M. A. C. last week. He was on his way to Nebraska.

The new lathes recently purchased by the mechanical department have been received. These will be set in the place of two of the old machines which will be repaired and offered for sale.

O. C. Simonds, one of the leading western landscape gardeners, has donated a number of plans of residences and parks to the horticultural

department to be used in teaching landscape gardening.

Geo. Nichols has been elected president of the Club Boarding Association and B. McAlpine has been elected director for Club B in place of H. T. Ross who has resigned on account of lack of time.

The Chicago West Side Athletic Club defeated the University of Minnesota in a recent game of basket ball. Minnesota has defeated every college team so far and claims the championship.

Dr. Beal attended Farmers' Institutes at Flat Rock, Clinton and Hillsdale last week. He spoke on weeds, grasses and forage crops, how crops grow and feed, roads, forestry and beautifying the home.

Ypsilanti thought our boys rather rough. Some people fail to distinguish between roughness and enthusiasm. Of course, a basket ball game is not exactly to be compared with chapel exercises or a class in methods.

Messrs. Gurney and Walker anticipate going to Detroit to conduct tests on the heating system of the Packard Motor Car Co. Thesis work in the engineering department is made very practical and is of such a nature as to interest students.

Prof. Weil has posted the following very suggestive, pithy announcement in the mechanical building:—"Be sure you are right then go ahead." If you cannot be sure, assume you are right and go ahead. Go ahead anyway.

F. W. Robison is conducting a series of experiments to determine

the relative value of succulent and dry feeding stuffs. The work is a duplicate of last year. So far no tangible results have been secured, since only three weeks have been devoted to the work.

Geo. A. Lowe, a member of the sub-freshman class, left rather suddenly last week Monday. For a time it was supposed that he had joined the U. S. Navy but a letter from his home announced the fact of his arrival there some time on Thursday.

The classes in mission study this term are reading "New Era in the Philippines," by Brown. About 35 are enrolled and the study is proving to be very interesting. A new class will be organized next week, and any desiring to join can leave their names with the general secretary, Mr. Wermuth.

Samuel Johnson, professor of agriculture at M. A. C. from 1879 to 1889, has an article in the *Farm and Live Stock Journal* on "The Importance of a Rotation in Crops." He speaks from the practical as well as the theoretical side and gives a clear notion of the necessity and usefulness of rotation.

The students of the Missouri Agricultural College have decided to publish the *Missouri Agricultural College Farmer*. This college is doing a great deal to introduce agriculture in the public schools and create interest in scientific agriculture. A course in poultry management has been announced.

Measles are going around these days. It seems that one or two

young ladies were the first to come down. Several young men visited at the building and ran across some of the "measly" germs. As a result quite a few young men have been transported to the college hospital. All cases are light.

The Junior Annual will consist of 200 pages. Views of the College, sketches, historical notes, literary articles, jokes and cartoons will be found in abundance. Annuals of this kind are worth a great deal, especially after one leaves M. A. C. Ye editor knows this by experience. If you wish to entertain friends at home with College exploits, an annual is a very fine thing for supplementary work. The Electric City Engraving Co., of Buffalo, will make the cuts, and Lawrence & Van Buren will do the printing. Both firms are well known for the excellence of their work and a neat, attractive annual is thus assured.

The M. A. C. Debating Club met Thursday evening, Feb. 11th. The following question was debated: "Resolved, That labor unions are detrimental to the welfare of the public. Messrs. M. W. Taber and G. N. Cardoza were the affirmative speakers, and C. E. Swales and J. G. Palmer had the negative. The judges' decision was two to one in favor of the affirmative. The critic pronounced the debate as one of marked progress for the club. It may be of interest to Juniors and Seniors that they may get off their orations by interviewing Dr. Edwards and arranging with the literary committee of the club.

Y. M. C. A.

At the regular business meeting of the Y. M. C. A. held last Thursday evening the following officers were elected for the ensuing year:

- Pres., C. L. Phillips.
- Vice Pres., H. H. Barnett.
- Treasurer, G. W. Nichols.
- Corresponding Sec., R. E. Haines.

- Recording Sec., S. E. Towne.
- Chorister, J. A. Wilkinson.

The reports of the several committees showed advances in every department. The membership committee reported 130 new members this year. There are 113 old members, making in all a membership of 243—a gain of nearly 100 over any previous year.

The social committee reported on two socials. One held at the beginning of the fall term for new men and the other with the Y. W. C. A. in the Armory. Another Union Social is already planned for this term.

The missionary committee reports that there are 35 men enrolled in mission study against 8 for last year. Over \$60 has been subscribed for missions.

The finance committee reported that \$493.32 had been collected. The dues and subscriptions amounted to \$983.64; leaving \$490.32 yet to collect.

The Bible Study Committee reports an enrollment of 105 men, which is double the enrollment of last year. The percentage of attendance is also higher than usual.

The devotional committee in conjunction with the committee from the Y. W. C. A. began a new policy this year by securing for the Sunday evening meetings men of some prominence instead of students. This has resulted in a large increase in the number of students who attend. The chapel is already getting too small. The Thursday evening meetings are better attended than in the past, the chair capacity being wholly inadequate to accommodate the men.

The term of office for the present officers and committeemen expires next month. Their efforts to raise the standard of life among the students deserves no little commendation, and we trust and believe that the new officers will keep the pace set by those who are about to step out.

B. W.

Messrs. Pierce and Adelman, who have elected to make tests on gasoline engines for thesis work will use a 16-h. p. engine made by the Bates & Edmonds Motor Co. The firm will ship the engine to M. A. C. It is of the latest design and is expected to show excellent results so far as work and economy is concerned.

Mr. Harrison wears a smile these days which is unusually large. He sent one of his fine collies to the Pontiac dog show, which secured first prize in its class and a special silver cup for being the best collie in the show. Along with these prizes came a box of elegant cigars for Mr. Harrison.

The Beet Sugar Course at M. A. C. gives a thorough training not only in chemistry but also in the varied lines of work more or less closely connected with the factory, such as mechanics, testing of seeds, care and culture of beets, etc. At the present time Instructor Reed gives a lecture

in elementary chemistry from 9 to 10 each day, followed by two hours of laboratory work. From 3 to 5 on Tuesdays, Thursdays and Fridays and on Saturday forenoons, Mr. F. E. Johnson of the senior class in engineering gives lectures and practical work in mechanics. Mr. Reed reviews the class on work in chemistry from 3 to 5 on Mondays and Wednesdays. Mr. Gibbon gives instruction in practical pipe fitting at such times as is found convenient. Technical chemistry and other work will begin on April 5.

'96.

G. W. Williams wrote an interesting letter to Prof. Weil last week, in which he states that the twin boys, born on July 31, are making things lively. According to recent reports the future of M. A. C. is secure as far as attendance is concerned, providing the second and third generations enroll as students.

C. H. Hilton has a fruit farm north of Benton Harbor. He also takes care of summer resorters. His fruit was a good crop last year. He raises apples, peaches and quite a quantity of small fruit.

'02.

A. J. Cook is a civil engineer for the P. M. R. R. He has lately been working between Saginaw and Grand Rapids.

O. H. Skinner is in the employ of the Columbus Laboratories, Chicago, as assistant chemist. On previous occasions he was delayed at Owosso for several days but this time he passed through the town without interruption while on his way to Chicago. It is needless to speculate as to the cause of the delays.

Irving Gingrich is manager of the South Bend Floral Company, carnation specialists. The firm has 6000 sq. ft. of bench surface and is doing a prosperous business. Mr. Gingrich expects to attend the meeting of the American Carnation Society at Detroit, March 2 and 3.

Geo. D. Francisco has charge of the drafting room for the Dravo Contracting Co. of Pittsburgh, Pa. He does outside work occasionally and thus keeps in touch with the practical side of engineering.

'03.

S. B. Hartman has an article in *The Farm and Live Stock Journal* on "Wood Ashes as a Fertilizer." He gives the farmer's proof as well as the chemist's. The phases considered are kinds of ashes, hauling and soils most benefited.

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The names in this Directory, as well as those of all our other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

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J. E. STOFFER, D. D. S. Office 105 Washington Ave. S. Former M. A. C. student.

R. W. MORSE, D. D. S. Hollister Block, Room 517. Citizens Phone 52, Bell Phone 396.

N. H. MOORE, D. D. S. Office 411-13 Hollister Building, Lansing, Mich. Citizens phone 475.

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J. W. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 219 Capitol Ave.

D. R. H. W. LANDON. Office and residence, M. A. C. Office hours from 7 to 8:30 a. m., and 12:30 to 2, and 6:30 to 8 p. m. Sunday office hours 4 to 5 and 7 to 8 p. m. Now phone 1560.

D. R. OSCAR H. BRUEGEL. Hours 9 to 11 a. m.; 2 to 4 and 7 to 8 p. m. Agricultural College, Mich. Citizens phone 1502.

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SHIELDS & LEADLEY. Plumbing and Heating. 300 Wash. Ave. N., Lansing. Both Phones.

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J. H. LARRABEE. Base Ball Goods, Foot Ball Goods, Tennis, Golf, Guns, Ammunition and Fishing Tackle. 325 Wash. Ave. S.