

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 8.

LANSING, MICHIGAN, TUESDAY, JUNE 9, 1903.

No. 37

NOTICE.

Lost.—Hesperian Society Pin. Finder please leave with Librarian.

The Farmers' Club will meet this week Wednesday night for election of officers for next fall. All members are requested to be present.

Lost.—Probably between dairy building and Secretary's office, possibly about the barn, an Alpha Zeta pin. Finder will kindly leave same at secretary's office and receive suitable reward.

M. I. A. A. MEET.

M. A. C. WINS THE TRACK EVENTS BY A LARGE MARGIN.

The annual M. I. A. A. field meet held Friday and Saturday at Albion was without doubt the best yet held as regards attendance, enthusiasm, and records. As in previous years Albion business-men decorated their stores and the whole town had a holiday appearance. At the beginning of the meet Friday M. A. C. took the lead and no college succeeded in heading off the home team. A light rain fell Friday forenoon and the track was in excellent condition the rest of the time.

About noon Saturday an event occurred, which seemed especially sad, because it was so unexpected. Captain North, of the Kalamazoo baseball team, while walking on the railroad track was struck by an incoming train and received injuries, from the effects of which he died fifteen minutes later, without having regained consciousness. The Albion baseball team gave the baseball championship to Kalamazoo out of respect for the dead captain, and the M. I. A. A. directors sent fitting resolutions of sympathy to the parents.

THE INDOOR MEET.

Attention should be called to the success achieved by our indoor team in winning the first indoor championship pennant offered by the M. I. A. A.

This success is due, to a greater degree than most of us realize, to the untiring efforts of Coach Close in putting the indoor team in shape for this meet. Mr. Close has for four seasons been daily found in the Armory encouraging and instructing the fellows with no remuneration except his bare expenses. Since his connection with the wrestling team we have been wonderfully successful, which is seen in the development of this year's winning team from new material. Mr. Close has also assisted in the training of the track team when he was not busy in the Armory. With such a trainer, M. A. C. need never fear the results of her indoor meets.

The results of the events were as follows:

Middle weight wrestling.—Wolf of Hillsdale, first; Hurst of Alma, second.

Light weight wrestling.—Clark of M. A. C., first; Ball of Olivet, second.

Heavy weight wrestling.—Bell of M. A. C., first; Wolf of Hillsdale, second.

Feather weight wrestling.—Children of Hillsdale, first; Brown of M. A. C., second.

Welter weight wrestling.—Fryman of M. A. C., first; Johnson of Alma, second.

Special class (125).—Jennings of Alma, first; Smith of M. A. C., second.

The individual club swinging was won by Swigart of Alma; Hach of M. A. C., second; Platt of Albion, third.

The parallel bars were won by Balbach of M. A. C.; Platt of Albion, second.

These results gave M. A. C. four firsts and three seconds, equal to 29 points out of a possible 56.

Track events.—100-yard dash—Moon, M. A. C., first; VanDis, Kalamazoo, second; Hill, Albion, third; time 10 2-5 seconds.

Running broad jump—Burrington, M. A. C., first; Moon, M. A. C., second; Brewer, Albion, third; distance 21 feet 9 1-2 inches.

120-yard hurdles—Church, Albion, first; Bartell, Albion, second; Betts, Olivet, third; time 16 3-5 seconds.

Running high jump—Bell, Hillsdale, first; Betts, Olivet, second; Moon, M. A. C., third; height 5 feet 4 1-2 inches.

Pole vault—Millar, M. A. C., first, height, 10 feet 4 inches; Blanchard, M. A. C., second; Bell, Hillsdale; Loomis, Olivet, and Bishop, Olivet, tied for third.

Mile run—Phillips, M. A. C., first; Baker, Hillsdale, second; Olin, M. A. C., third; time 4 minutes 48 2-5 seconds.

220-yard hurdles—Church, Albion, first; Martin, M. A. C., second; Cratzenburg, Alma, third. Time, 12 2-5.

Half-mile run—Meek, M. A. C., first; Johnson, Olivet, second; Warner, Albion, third. Time, 2:05 2-5.

Two-mile run—Leach, Olivet, first; Baker, Hillsdale, second; Olin, M. A. C., third. Time, 11:49 2-5.

Football punt—Bell, Hillsdale, first; Burrington, M. A. C., second; Burke, M. A. C., third. Distance, 135 ft. 4 in.

220-yard dash—Moon, M. A. C., first; Milliken, Olivet, second; Van Dis, Kalamazoo, third. Time, 12 1-5.

Shot put—Betts, Olivet, first; Beechler, Alma, second; Hill, Albion, third. Distance, 36 ft. 8 in.

Discus throw—Kratz, M. A. C., first; Brewer, Albion, second; Bliss, Albion, third. Distance, 99 feet.

Hammer throw—Duross, Hillsdale, first; Blair, Olivet, second; Farleman, M. A. C., third. Distance, 102 ft. 7 in.

440-yard run—Milliken, Olivet, first; Van Dis, Kalamazoo, second; Verran, M. A. C., third. Time, 5:53 3-5.

NOTES ON THE MEET.

An M. A. C. alumnus who knows a great deal about athletics, gives it as his opinion that the Albion track team, though unsuccessful, showed the best form in the various events.

The Detroit papers had in the Saturday and Sunday issues numerous cuts of the M. I. A. A. Field Day events. A particularly good cut of the M. A. C. track team appeared in the Sunday Tribune.

Burrington's broad jump beats the record made in that event in the Western Conference Meet this year.

Moon did not enter the 440-yard race. He would probably have won this event also had he entered.

The feeling that prevailed among the various colleges was, on the whole, good. Some rough work was done by Albion hoodlums not connected with Albion College in any way.

Verran, Phillips, Meek and Moon composed the winning relay team, each man running in the order named. Moon was so far ahead in the last lap of the relay that he simply trotted in. The time for the relay was three minutes and forty-five seconds.

A crowd of one hundred and eighty went to Albion from M. A. C., there being in this number thirty young ladies.

The following records were broken: Broad jump by Burrington; pole vault by Millar; 120-yard hurdles, and 220-yard hurdles, by Church of Albion; 220-yard dash, by Moon. Phillips equalled the record in the mile run.

The M. I. A. A. track banner, also the indoor banner and the silver cup offered by Mr. Brackett for the winning relay team are now in the possession of M. A. C. and may be seen in the library.

In tennis M. A. C. won second place in ladies' doubles and in ladies' singles, the Hillsdale ladies winning first place in both. Miss Hadley played singles for M. A. C. and Miss Hadley and Miss Adams the doubles. Messrs. Wheeler and Willett lost in the men's doubles and Mr. Willett also lost the singles. White and Gardner, of Albion, won the final match in doubles, and Hyney, of Alma, won the final match in singles.

BASEBALL.

ALBION.

	AB	R	H	O	A	E
Striker, p.	5	2	4	0	4	0
Van Huse, r.f.	6	0	1	1	1	0
McKale, c.f.	5	0	1	2	1	1
Church, 1b.	4	1	1	15	2	0
Knickbocher, 3b	4	1	2	0	2	0
Bliss, c.	5	1	1	4	2	0
Matthews, ss	5	2	2	1	4	1
Brewer, 2b.	3	1	0	7	1	1
Brail, lf.	5	1	1	0	1	0
Totals	42	9	13	30	18	3

HILLSDALE.

	AB	R	H	O	A	E
Hayes, 3b.	4	2	2	0	0	2
Ziegler, c.	5	1	0	7	1	0
Bell, ss.	5	2	2	0	4	1
Depew, 1b.	5	1	3	15	0	0
Neufang, 2b.	5	0	1	0	6	0
Brown, cf.	4	1	1	0	0	0
Boone, rf.	4	0	0	2	0	0
Johnson, p.	4	0	2	0	2	0
Westcott, lf.	4	0	0	3	0	0
Totals	40	7	11	27	13	3
Albion	0	2	1	1	0	0
Hillsdale	1	0	0	1	0	0

ALUMNI.

'99. Mr. Thorne Swift, of Grand Rapids, writes that a son came to his home June 4th.

'02. Miss Clare Dean closes her work at Knoxville College, Tenn., with this year and has indefinite plans for pursuing her studies somewhere in the East for the coming year. She will take summer school work at Findley, Ohio, during August.

'62. Mr. A. J. Cook, of Pomona College, Cal., sends the following to THE RECORD: I enclose a letter regarding the late Mr. E. M. Preston, class of '62. He was one of my classmates, and was dearly beloved by all who knew him. He has done a magnificent work in California, and was widely known and everywhere honored. His work in the legislature was very important, and his influence second to few if any. He has received the highest honors that the state could give in the Masonic lodge, and was recognized everywhere as a man of the broadest sympathies. He was a successful banker at Nevada City, where he has done business for many years. It is said that his funeral was the largest ever held in the city of his adoption. The papers of the state, with one accord, speak in highest terms of his work and character; while in the legislature he secured an act founding a reform school. It was named after him, and is now called the Preston School of Industry. He was the chairman of the board of trustees of this institution from its organization until his death. Preston was a grand fellow, and I never think of him without feeling the sincerest pleasure and admiration. He was ever a credit to his Alma Mater, and never disappointed his friends. He became a man of genuine power because of his real worth. Whenever he visited us here at Pomona College I secured him to address our students and people, and he always commanded a full and most interesting hearing. I feel it a very serious loss that he is taken from us. Two of the class of '62, in less than a year, have gone to the other side.

In response to a request from Mr. Cook, Mr. M. A. Preston contributed the following note in regard to his father: My father's health had been poor all winter. He had a two months' siege of influenza and visited my wife and myself at our late home in San Francisco, where he recovered much of his usual health. While with us he completed arrangements for a pleasure trip to Europe and had tickets and passage engaged. He then returned to Nevada City to attend to a few business matters, and on Easter Sunday attended services with the commandery. It was a cold, miserable day, and he contracted additional cold, which turned to pneumonia with the very sad result you know.

THE M. A. C. RECORD.

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

EDITORS.

P. H. STEVENS, MANAGING EDITOR.

ASSOCIATE EDITORS:

W. R. HOUGH, '05m.

F. H. NICKLE, '03m.

KATE COAD, '05.

ZOE BENTON, '05.

F. HOBART SANFORD, '04.

W. CLYDE ARMSTRONG, '03m.

M. P. WILLETT, *sp.*

R. T. STEVENS, '04.

E. S. GOOD, '03.

H. N. HORNBECK, '04.

CLARA WOODLEY, *sp.*

Subscription, - - - 50 cents per year.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich. Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, JUNE 9, 1903.

MEMORIAL SERVICE.

Since the last triennial reunion four men, prominently connected with the history of the College, makers indeed, of its history, have passed away. As a due and fitting mark of respect to our dead, as an expression of our gratitude for their labor, into the fruits of which we are entered, and in order to preserve among our students a proper knowledge of the College history, and fitting pride in its great name, it has been determined to hold, as a part of the exercises of baccalaureate Sunday, June 14th, at 7:30 p. m. in the armory, a memorial service.

It is earnestly desired that all students and all members of the faculty shall arrange to be present. The general public also is heartily invited to attend. The program has been carefully arranged, and the occasion will prove full of interest to all connected with the College.

A TRIP SOUTH.

Prof. Taft has kindly furnished us the following account of his trip south:

On Monday evening, June 1st, I left St. Louis, Missouri, with a party of twenty persons, most of whom were representatives of agricultural and horticultural papers in the northern central states, as guests of the Cotton Belt Railroad, for a trip to the truck and fruit districts of eastern Texas. Hon. R. D. Graham, a member of our Board of Agriculture, and W. P. Morrill, of Benton Harbor, were the only others from Michigan. The railway company placed at our disposal a Pullman sleeper and a palace cafe car for the entire trip, and on reaching Tyler, Texas, made up a special train including the private cars of the general superintendent and the general passenger and freight agents.

In the early morning we were passing through southeastern Missouri. On either side of the track a strip from one-fourth to one-half mile in width had been cleared, but beyond that in either direction, it was an unbroken forest. The land

sloped gently away from the railroad and was in excellent condition for crops, being free from stumps and grubs. It was occupied with crops of wheat, cotton, corn, potatoes and watermelons. The melons succeed admirably here and hundreds of car-loads are shipped annually to St. Louis and the northern cities.

In Northern Arkansas the road passes through a timber country and most of the villages consist of a number of houses grouped about saw and stave mills. In Central Arkansas we passed for a number of miles through a prairie section with fine crops of wheat, oats, corn and cotton. In the forest section there were numerous "deadenings" where cotton and corn were growing among trees that had been girdled and allowed to stand until they decayed and fell to the ground. This shows the shiftlessness of the people, as one of these large trees falling in a cotton plantation must cause a loss several times as great as the expense of their removal.

Two full days were spent in Texas, the principal points visited being Tyler, Jacksonville, Crafts, Rusk and Morrill. The soil in this region varies from a rather stiff clay to a fairly light sandy loam. Much of it contains a large amount of iron which gives it a red or chocolate color. The crops raised on these soils are earlier than upon those of a lighter color and superiority is claimed in the flavor, color and firmness of the fruits. The larger part of this area is from five hundred to seven hundred feet above the level of the Gulf and the crops grown here are far less subject to frosts than those on the lower land. The rainfall in most seasons is ample and this year it has been excessive, so that the farmers have been delayed in fitting the land and working their crops. The weather has also been quite cool so that the crops are some ten days later than usual. The harvesting of strawberries and early potatoes is completed and blackberries, tomatoes, string beans and other vegetables are now being marketed.

The Cotton Belt Railroad is doing all in its power to foster the development of this section. It is not uncommon for it to ship each night five or six double header trains loaded with fruit and vegetables from a single one of its branches. These trains are sent north ahead of the regular passenger trains, and reach Chicago in from thirty-six to forty hours.

An account of the visit to the Morrill fruit and truck farm at Morrill, near Alto, will be particularly interesting. A tract of 12,500 acres has been purchased by Messrs. Morrill, Graham, and three Chicago gentlemen at this point. Less than 1,000 acres had been cleared, most of the remainder being covered with a second growth of oak, hickory, and other trees, some fifteen years old. As fast as possible this growth is being removed and the soil planted to peaches with tomatoes, potatoes and cantelopes between the rows.

Included in the purchase was a tract of about 1,000 acres which had been used by the state as a convict farm for growing corn and cotton and some sixty-five convicts are now employed by the company. The cost is seventy cents per day, and the state furnishes guards, food and clothing. Free farm hands receive one dollar per day and women and children about fifty cents. There is

little difference in the economy of the two classes of labor, except that the convicts never strike and are always on hand for work, which cannot be said of the free laborers. The crops are all somewhat backward but, from three hundred acres of early potatoes, forty car-loads have been harvested and the shipments from one hundred acres of tomatoes are beginning. Some 700 acres have been planted to peach trees, mostly to Elberta; 125 acres to cantelopes; 400 to cotton, much of which is used as second crop to follow the potatoes and tomatoes, and 200 acres to corn. The railroad company has erected a handsome depot upon the farm and, in the vicinity, a general store, a hotel, a large packing shed and a number of houses for the owners and their employees have been erected by the company. Everything about the premises shows the effect of northern thrift and enterprise and everyone with whom we talked spoke in the highest terms of Mr. Morrill and seemed to have no doubt of the success of his venture.

CHEMICAL LABORATORY FOR THE EXPERIMENT STATION.

Mr. F. W. Robison, chemist for the experiment station, will have a very convenient laboratory when the quarters formerly occupied by the department of bacteriology are re-arranged for him, as will be done by the end of the present month.

The new experiment station laboratory will occupy the second floor of the veterinary building, which story, besides a small office at the head of the stairway, contains two rooms, each 16½x30 feet. The east part of the partition between the two rooms, as they were formerly, has been taken out in order to give better light and ventilation as well as for the sake of convenience. Two iron pillars will support the ceiling in place of the old partition.

Of the two rooms, the one on the north will be well supplied with tables having cement tops and sink attachments. The south room will contain drying ovens, an electric motor and machines for grinding and pulverizing samples. A small enclosed room for chemicals is also in the south division of the laboratory.

In the east side of the laboratory will be installed a ten-foot, direct draft hood extending up into the third story. The hood as well as each table will be supplied with

water, gas, air, steam, vacuum and electricity. Distilled water will be obtained from an automatic steam still in the attic and attachments will be made so that the water and steam can be turned on and off from the laboratory below. Running around the entire laboratory at a convenient height will be covered electric wires with sockets at intervals so that electric lights, heaters and ovens can be put in place.

The new laboratory will be a very much needed improvement upon the present location of the chemical division of the experiment station. The room in use in the chemical laboratory is low and in-commodious and the space is sorely needed by the chemical department of the College.

Y. M. C. A. NEWS.

Harry C. Meek led the Thursday evening prayer meeting. Theme: "Choosing our work." In choosing our life work the greatest question should be, where can I do the most good to the greatest number, thus making the world as much better for my having lived in it as possible. The great majority of people in deciding their life work ask the questions, where can I make the most money, or where can I be the most popular, or where can I have the greatest political or social influence. If every young man and woman would be influenced by the divine spirit there would be vastly fewer shipwrecks of life and failures than there are.

Chapel services Sunday morning were conducted by Rev. J. A. Schaad, Lansing, Text, John 10:10. "I am come that they might have life, and that they might have it more abundantly." The sermon was very interesting and the attendance quite good.

The union meeting of the Y. W. and Y. M. C. A. Sunday evening was conducted by Mr. C. G. Vernier from Butler College, Ind. Subject John 13:34. "A new commandment I give unto you, that ye love one another, as I have loved you." This new commandment does not conflict with that old commandment which commanded the Jews to love their neighbors as themselves, the one is universal, not circumscribed.

'92m. Mr. L. C. Brooks is now located at 55 West Sharpnack St., Germantown, Philadelphia, Pa. He writes that the latch string at the above address is always out for old M. A. C. men.

THE DONSEREAUX CLOTHING & GROCERY CO'S

M. A. C. SPECIAL



Is now being distributed for the Opening Sale of
DRY GOODS, CLOTHING AND GROCERIES. — A
special sale exclusively for the College and Collegeville. Be sure and get one of our circulars.

A. M. DONSEREAUX.

ABOUT THE CAMPUS.

Several College people were at Pine lake Saturday.

Most of the grass on the campus was mowed last week.

The horticultural department has received a supply of lotuses for the artificial pond.

There is talk of pulling off the baseball game between the instructors and seniors on Saturday afternoon.

Club E will be run during the summer vacation. It has not been decided whether the price of board shall be \$2.50 or \$3.00 per week.

Fully half the young ladies in the women's building were absent Friday and Saturday. Some were at Albion and others were at home.

Some publishers of educational papers in New York City have written to the College authorities recently for cuts of various buildings.

The M. A. C. district school closed last week. A picnic had been planned as the last event, but this had to be given up on account of bad weather.

Mrs. Rockwood, who edits the Household Department of the *Michigan Farmer*, was at M. A. C. last week getting facts in regard to the women's department for an article to be written in the near future.

Janitor Scott of the chemical laboratory was quite severely burned Saturday while attempting to discover a leak in a gas pipe. He will probably not be on duty for several days.

New planks have been laid on the Farm Lane bridge.

An addition to the cement walk in front of the postoffice is being built.

Miss Lyford is receiving a visit from her sister, Miss Genevieve Lyford, of Moline, Ill.

Mr. Max Beutner, formerly at M. A. C., was one of the timers Saturday at Director Stagg's inter-scholastic meet.

The portrait of Mr. Wells of the State Board of Agriculture is in the frame and will soon be ready for presentation.

Prof. and Mrs. J. A. Jeffery are receiving an extended visit from Prof. Jeffery's parents whose home is near Brookings, South Dakota.

Mr. J. J. Ferguson is steadily recovering from the accident which befell him. He was injured by being hit on the head by a broken trolley pole.

Officers of the Phi Delta Literary Society for the fall term 1903 have been elected as follows: President, Henry William Geller; Secretary, Robert D. Maltby; Warden, T. D. Angell; Treasurer, Robert N. Ferguson; Steward, H. L. McNulty; Record Editor, G. H. McIntyre.

A brother of Mr. Higgs of the firm of Higgs & Burton, will put in steam laundry machinery in the "White Elephant" during August and by the opening of the fall term will be ready to do business. Two students will act as agents for the student trade.

Mr. Frank Phillips will study at the University of Michigan next year.

Instructor Crawford and Mr. L. Jenison spent Saturday fishing at Park lake.

Mr. and Mrs. M. L. Dean visited Mr. Dean's old home the latter part of the week.

Instructor L. A. Waterbury will be Instructor in Civil Engineering in the University of Illinois next year.

The Scrooby Club of Pilgrim church, Lansing, to which club many M. A. C. people belong, had a picnic at Pine lake, Saturday.

There was some delay last week in the work of laying the new water mains, owing to delay in the shipment of eight-inch pipe.

The pine seeds planted by Prof. Bogue in the forest nursery across the Red Cedar river have come up, the results of the planting being very satisfactory.

Several M. A. C. people are planning to study in the University of Chicago this summer. Others from M. A. C. will be in Chicago though not in the University.

Mr. Longyear has discovered a rare bird's nest, that of the Kentucky cardinal. The nest is in the clump of evergreens south of the drill grounds and north of the river drive, near the road to the athletic field. Although for several years there have been Kentucky cardinals on the campus no nest of this species has been found before.

Street car No. 16 was struck by lightning Saturday night, but no serious consequences resulted.

Two cuts of the interior of the new dairy barn appeared in the last issue of the *Michigan Farmer*.

Mr. L. G. Michael has received a scholarship in mineralogy in Columbia University for next year.

Mr. Ray Tower, M. I. A. A. Director, was in Albion yesterday settling up matters connected with the M. I. A. A. Meet.

Mr. E. Pinance has gone to Toledo, O., where he will play baseball with the Toledo team at a salary of \$150 per month.

Mr. P. M. Lyman has received the standings of the civil service examination, which he took some time ago. Of forty taking the examination he stood first, with a rank of 94 45-100 per cent. He has been appointed substitute mail clerk, and will be advanced as soon as there is an opportunity.

James G. Welch of the University of Michigan won the first prize of \$50 in gold at the Eastern Interstate Oratorical contest of the Intercollegiate Prohibition Association, which was held at Wooster, Ohio, on May 23. The other states represented were New York, Indiana, Ohio and Kentucky. The Central and Western Interstate contests were held at Sioux City, Iowa, and Corvallis, Ore., this year. The winners of these contests this year and next, will compete for the "highest oratorical honor known to the College world."

PREPARE

FOR HOUSE CLEANING

By getting Galvanized Pails, Mops, Scrub Brushes, Carpet Beaters, Step Ladders, Floor and House Paint. Come to us. We can supply your wants and want your trade.

NORTON'S HARDWARE

111 Washington Ave. S.

Furniture...

Headquarters

COMPLETE LINE OF FURNITURE FOR STUDENTS' ROOMS

Canvas Cots at 95c. Woven Wire Cots at \$1.50. Woven Wire Springs at \$1.50, \$2.00, and \$2.50. Mattresses at \$2.00, \$2.50 and \$3.00. Tables at \$1.50 and \$1.35. Chairs at 50c up.

All goods delivered to your room free.

M. J. & B. M. Buck.

Nothing but the Latest Styles

— find place in our —

Hat and Shirt Stocks

At present the showing is the best as the stock is complete in every detail, and we would be pleased to have you come in and look them over even though you do not desire to purchase.

Students' Patronage Solicited.

Elgin Mifflin.

Simons Dry Goods Co.

GRAND SHOWING OF

New Carpets, Rugs, Curtains, Mattings and Fiber Carpets.

SPECIAL LINE OF ORIENTAL DRAPERY STUFFS FOR DENS AND COZY CORNERS.

Come in and See the New Room Furnishings.

Simons Dry Goods Co.

Men's Oxfords.

We have all the new styles, in patent leather, vici kid or box calf. Made in light, medium and heavy soles at the uniform price,



\$3.50 a Pair.

C. D. Woodbury,

Hollister Block.

FORESTRY AT M. A. C.

The four-year course in forestry has been spoken of in a general way, but in view of the inquiries being received about the course, it would seem that the work is not yet clearly understood, and an explanation of the forestry subjects studied may not be out of order.

In the study, elements of forestry, the aim is to make the student familiar with what forestry really is, and what it seeks to accomplish, and how land under varying conditions may best be treated from a forestal standpoint. This study is the only one in the course before the junior year, as previously announced the first two years of the forestry course being the same as for agricultural students.

Principles of forestry in the junior year gives a comprehensive view with reference to the economic aspects. In forest botany, beginning with the pines, the distribution, character, habits, uses and comparative value of the different trees as they occur in the different natural orders are discussed in the classroom. In the field work practice is given in the identification of trees and shrubs and some attention is given to their ecological requirements.

The next subject in order is wood technology. The anatomical structure of several species of wood is examined with a view to the specific differences as shown by the wood structure and the reason for the peculiar fitness of certain species of wood for certain purposes.

Silviculture is a study of seeds and seedlings with practical work in the production of forests from seeds, seedlings, cuttings, and coppice. Forest mensuration, as the name indicates, includes estimation and determination of the increment of single trees and of whole stands, and a comparison of different American log rules. This is field work entirely.

A review of the science of forestry is given under the head, history of forestry, while under protection and regulation, consideration is given to the study of the best methods of protection against fire, trespass, grazing animals, and drifting sand, and the management of stands so as to produce continuous revenue.

Diseases of trees is one of the important forestry studies, a consideration of the nature and treatment of injury caused by insects, fungi and other agencies being given.

Investigation and valuation are the last subjects in the course. The former is original work by the student, the latter is an application of the methods of ascertaining the value of forest growth of different ages and for different purposes. Prof. Bogue is increasing his forestry museum as rapidly as possible and before many years the facilities for instruction in forestry at M. A. C. should be very good. Many of the native trees that were growing at the College when it was opened in 1857 are still thrifty. The campus now contains over six hundred native and introduced species and varieties. The woods on the College farm comprise nearly two hundred acres whose primary use is for demonstration in forestry work. Three thousand acres of virgin forest in Oscoda County have been set apart for the use of the forestry department and it is expected that, hereafter, students will spend two weeks during the latter part of the

spring term, senior year in the forests and logging camps of the northern part of the state.

Extensive improvements are in progress in connection with the dairy barns. The yards are being brought to a uniform grade to carry the surface water away. This involves the moving of a large amount of earth, but will greatly improve the yard conditions. Eave-troughs are to be added to both dairy and grade herd barns. Paddocks are to be provided for exercising the dairy bulls, and a water system will be introduced. Both yards and pastures are also to be provided for the young dairy stock.

The executive committee of the Michigan Postmaster's Association met at the College last week to arrange for a meeting to be held in Ludington during August. Ten members were present. The committee looked over some of the College departments and were much surprised and pleased by what they saw.

'91. The *Breeders' Gazette* of May 27th speaks in very high terms of Prof. H. W. Mumford, both as a man and as an investigator. The issue contains an extended notice of some experiments now being carried on by him at the University of Illinois.

'91. Prof. and Mrs. W. O. Hedrick announce the birth of a daughter.

'99. Mr. W. K. Brainerd has returned from New Orleans, and will spend the summer in the north. He has been teaching mathematics and agriculture in Leland University the past year. The New Orleans papers think Mr. Brainerd knows all there is to be known about football.

'02m. Mr. Dennis Smith plans to be at M. A. C. next Saturday.

Spaulding's Jerseys

We have Spaulding's \$2.50 and \$2.00 Jerseys in stock in black and maroon solid colors. Should anyone at any time find anything defective about goods purchased here, they would confer a favor on us by letting us know all about it.

J. H. LARRABEE
225 Washington Ave. So.

College Grocery

HIGGS & BURTON,
Proprietors.

* FULL LINE OF *

Lunch Goods,
Confectioneries
and Fruits.

Special attention given to parties.

Lunches served at all hours.

THE JEWETT & KNAPP STORE

Lansing's Low Priced Reliable Store

Every Department full of New Spring Goods.

New Dress Goods, Silks, Laces, Gloves, Hosiery, Underwear, Silk and Cotton Shirt Waists, Muslin Underwear, Dress and Walking Skirts, Tailor Made Suits, and Jackets.

We also carry a Complete Stock of Lace Curtains and Draperies.

Jewett & Knapp,

222, 224 Washington Ave. S.

Lansing, Mich.

When in need of

FINE STATIONERY, INVITATIONS
or CARDS

CALL ON

Lawrence & Van Buren Printing Co.

122 Ottawa St. E.

Lansing Mich.

DIRECTORY

LANSING BUSINESS and
PROFESSIONAL MEN

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.

BARBERS.

M. A. C. BARBER SHOP, Room 44 Williams Hall. E. E. Reynolds, Propr.

BOOKS AND STATIONERY.

A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames. Fine Framing a Specialty. New store. New Stock.

CITY BOOK STORE. Fountain Pens, Drafting Tools, Stationery, Cards, Engraved, Pictures and Picture Framing. Tennis, Football and Baseball goods. Crotty Bros., 206 Wash. Ave. N.

BOOK BINDERS.

GEO. G. BLUDEAU & CO.—Blank book manufacturers. Book-binding of every description done neatly and promptly. 109 Wash. Ave. N.

WAGENVORDE & CO.—Bookbinders, Blank-book Makers, Library and Art Bindings, Albums, Pocketbooks, Map Mountings, etc. Back numbers of magazines and periodicals supplied. Bell phone 378. 109 Washington Ave. South.

BOOTS AND SHOES.

C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

CONFECTIONERY.

ONLY the best candies at the "Sugar Bowl," Cor. Washington Ave. and Allegan.

CLOTHING.

BUY your Dry Goods and Clothing, Hats, Caps and Furnishing Goods at H. KOSTICHER & BROS., 113 Washington Ave. N., and 210 Washington Ave. S.

LOUIS BECK.—Clothier. Gents' Furnishings, Hats and Caps. 112 Washington Ave. North.

CROCKERY AND GLASSWARE.

H. H. LARNED.—China, Glass and Lamps. 105 Washington Ave. S.

DENTISTS.

D. E. PARMELEE.—Dentist. 218 Washington Ave. S. Phones, Bell 520 office, residence 732.

J. E. STOFFER, A. B., D. D. S. Office 109 Washington Ave. S. Former M. A. C. student.

R. W. MORSE, D. D. S. Hollister Block, Room 517.

DRUGGISTS.

ROUSER'S CAPITAL DRUG STORE. Up to date. Corner store. Opposite Hollister Block.

ROBINSON DRUG CO., successors to Alsdorf & Son, Drugs and Druggists' Sundries. 102 Washington Ave. N.

DRY GOODS.

SIMONS DRY GOODS COMPANY.—Dry Goods and Carpets. See ad.

DONSEREAUX'S DEPARTMENT STORE is the place to trade. You can get a warm lunch in our cafe for 10c. See ad.

THE JEWETT & KNAPP STORE. Dry Goods. 222-224 Washington Ave. S.

ELECTRICAL SUPPLIES.

CAPITOL ELECTRIC CO. Electrical Supplies, Telegraph Instruments and Telephones. 321 Wash. Ave., S.

ALL MEATS . . .

May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us.

We make daily trips to the College. BOTH PHONES. Careful attention given to phone orders.

A. C. ROLLER,

Successor to GOTTLIEB REUTER.
Washington Ave. South.

FURNISHING GOODS.

ELGIN MIFFLIN.—Ladies' and Gentlemen's Furnishing Goods. See ad.

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

HACK AND BAGGAGE LINES.

ORDER your hacks for parties at Carr's Hack Line. Livery in connection. 410 Washington Ave. N.

HARDWARE, STOVES AND TINWARE.

NORTON'S HARDWARE—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

INSURANCE.

THE DYER-JENISON-BARRY CO., LTD., (Incorporated) Hollister Block. All kinds of the best insurance. Strongest agency in city.

JEWELERS.

CHAS. A. PIELLA. Jeweler and Optician. 121 Washington Ave. N., Lansing, Mich.

MANICURE AND HAIRDRESSING.

MRS. O. T. CASE—Manicure and Hairdressing Parlors. Masquerade wigs for rent. Switches made of cut hair or combings. New phone 118. 222½ Washington Avenue S., up stairs.

MERCHANT TAILORS.

WOODBURY & SAVAGE.—Tailors. Student trade solicited. Opposite Hotel Downey, North.

JOHN HERRMANN'S SONS. 218 Washington Avenue N.

MUSIC, PIANOS, ETC.

THE POST MUSIC CO. Pianos, Organs and everything in the line of music. 219 Washington Ave. N.

OCULISTS.

JOSEPH FOSTER, M. D.—Eye, Ear, Nose and Throat. Hours 9 to 12 a. m., 2 to 4 p. m. Cor. Allegan St. and Capitol Ave.

CHAS. G. JENKINS, M. D.—Diseases of Eye, Ear, Nose and Throat. Hours, 9 to 12 a. m., and 2 to 5 p. m. Citizens Phone No. 1030. 224 Washington Ave. South.

PHOTOGRAPHS.

C. E. WALTER, M. A. C. I make Photographs; Landscapes, Buildings, Interiors, Flash-lights, Lantern Slides, Transparencies, Medallions and Stereoscopic Views. Developing and Printing for Amateurs. Views for sale.

PHYSICIANS.

A. D. 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 419 Seymour St.

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 218 Capitol Ave.

PLUMBERS.

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

SPORTING GOODS.

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