

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 8.

LANSING, MICHIGAN, TUESDAY, JAN. 27, 1903.

No. 19

NOTICE.

The first military hop of the winter term will be given at the College Armory Friday evening, Jan. 30, in honor of the officers of Co. E., M. N. G. Uniformed students will be admitted for 50c per couple, and as it is desired to be as nearly military as possible, non-uniformed students will be charged \$1.50 per couple, and visitors \$1.00 per couple. The hop will commence promptly at 7:30 p. m.

THE NEW LABORATORY.

There is shown in this week's paper a cut of the new bacteriological laboratory. Although the interior work is not all done and for various reasons will not be for a short time, the general arrangements of the laboratory as it will appear when completed can be readily observed.

The new building, located as it is, a short distance northeast of the botanical laboratory and also a short distance southeast of the horticultural laboratory is seen to advantage in a view comprehending the line of comparatively new laboratories. The main dimensions are laboratory proper: 75½ ft. x 58½ ft.—bacteriological stable (immediately behind the laboratory and connected with it by a corridor) 42½ ft. x 43 ft., its elevation being 10 ft. The elevation of the laboratory by stories is: basement 10 ft., first and second floors 13 ft. each. An attic used for a storeroom adds somewhat to the elevation. The two largest rooms are the main class room on the second floor and the lecture room on the first floor, the former room being 55 ft. x 25½ ft. besides having a wing 20 ft. x 20 ft. The lecture room measures 35 ft. x 25 ft.

The walls of the building are constructed of red stock brick with white stone trimmings. From basement floor to attic they have a dead air space. On the inside they are made of plain white sand brick, the seams being filled and the whole surface finished with two coats of zinc paint. For a height of five feet the walls have been wainscoted with holly-leaf green paint, but the rest of the color scheme is light cream. The first two floors are hard maple and the basement floor is cement. The ceilings are stamped steel throughout. The studded partitions are plastered with three coats of adamant and painted the same as the brick walls. Georgia pine, natural finish, is used in all the casings and doors. The building with its numerous windows is remarkably well-lighted. The artificial light used is the electric, the heating is by steam from the central plant, and the ventilation is direct.

In planning the building two objects were in view, namely, to meet the needs for the experiment station work, and, secondly, the needs for the College work. For the experiment station work the idea was to have a general working laboratory located next to the office with several small rooms for specific pur-

poses, in which apparatus could be kept ready for such work, tests and determinations as are carried on in laboratories of a similar nature.

In considering the College requirements it was necessary not only to make provision for the present needs by giving students desks for carry-

an office also on this floor and the remaining rooms on this floor are respectively the culture, sterilizing, incubating and store room.

Without going into great detail it can be said truthfully that the equipment is all of the most modern style (or rather it will be when complete).



NEW BACTERIOLOGICAL LABORATORY.

ing on the required work, but to make provision for future developments as far as possible. Besides the laboratory rooms on the 2d floor there are in the basement three rooms for conducting applied work in bacteriological subjects, for example the studying the application of plant, soil, dairy, food bacteria, etc. One of these three rooms is a soil room, and adjacent to it is a conservatory devoted exclusively to plant and soil bacteria.

The hospital stable contains ten apartments and a central court. One apartment is given up to a crematory, another to operations, and all the other rooms with brick partitions to the ceiling are for animals. Five of these rooms have an outside door as well as a door opening into the inner court. This is for the purpose of handling dangerous and contagious diseases of animals. Each apartment is heated with steam by coils near the ceiling and the operating room is supplied with gas, water, and steam.

The north half of the basement is devoted to experiment station work, the south to college work. In the center of the building there runs a shaft from the basement to the attic containing temperature rooms. There are six of these in the basement and one each on the first and the second floor.

The first floor contains, besides the lecture room, a small laboratory for students doing special work and two devoted to college work. There is also a laboratory for experiment station work with several rooms opening off from it and given over to special purposes. The first floor contains also the office of Dr. Marshall and the working library.

The second floor is devoted to class room purposes. Besides the large room accommodating 52 students there is a smaller one accommodating 12. Instructor Edwards has

Ample provision is made for sterilizing by large copper steam sterilizers placed in sinks and connected directly with high pressure steam. Above these sterilizers are galvanized iron hoods. Accommodations for washing and cleaning are made by alberene stone sinks, one in the basement for students, 18 feet long, and one on the second floor 12 feet.

The class rooms are equipped with rows of desks, each desk having a cupboard and two drawers besides water and gas connections. For every two desks there is an electric light. In the class rooms are several large glass hoods, the bottoms of which consist of alberene stone resting upon gas-pipe stands. Each hood is provided with gas, air, water and steam. The cost of the building when completed will be between \$23,000 and \$30,000.

PRESS CLUB VISITS THE COLLEGE.

The Eastern Michigan Press Club which met in Lansing last week spent a part of Tuesday afternoon at the College. The members in small groups were taken about the grounds and buildings and shown the sights by Pres. Snyder and some others of the faculty. At four o'clock a lunch was served in the Women's building.

The visit of the Press Club was rather informal as the limited time at the disposal of the members made any elaborate entertainment out of the question. Many members of the organization expressed themselves as well pleased with the work done by Miss Avery's physical culture class.

'93. The first bill introduced by Senator Cook was a bill favoring the adoption of the Torrens land registering system in Michigan.

ALUMNI.

'78. Prof. Holdsworth is now settled in his new Oakwood residence. Ex-secretary Bird, '83, and Dr. Waterman, '91, have been living in their new residences for several weeks past, the latter having built a house on the delta. Mr. Bird's residence in Oakwood opposite the arboretum is pleasantly located and is of itself a substantial addition to the village outside the college grounds. The building of modern houses in the vicinity of the College gives an appearance of stability and from every point of view is something to be desired.

From *Detroit Free Press*. '89-'90. Two new professorial chairs were decided upon for the Michigan College of Medicine and Surgery in Detroit, at the annual meeting of the board of trustees, and they will hereafter be known as the chairs of tropical medicine. The purpose is to instruct the students in the tropical diseases, such as are encountered in Cuba, the Philippines, the West Indies, and other tropical countries where American men and women are now settling. Dr. Robert S. Linn, who served in the United States army both in the Philippines and China, will have charge of one of them, and the other will be under the direction of Dr. V. J. Hooper, M. A. C. '89-'90, who was a volunteer surgeon in the late war, and who saw duty in the Philippines and the West Indies.

'90m. W. J. Meyers who has been for some time in Toronto is now permanently located in Chicago.

'98m and '02m. Mr. Frank Warren, '98, visited M. A. C. friends for a few days last week. He has been for some time connected with the Smedley Construction Company of Philadelphia. In the reorganization of the company both he and Mr. A. H. Case, '02m, became active members.

'99, and B. Pd. '00, Miss Clara Stocoum, Michigan State Normal College, has resigned her high school position in the state of Illinois to accept a principalship in the city schools of Antigo, Wis.

'00. A pamphlet entitled "Methods of Estimating and Measuring Standing Timber," being a reprint from the sixth annual report of the forest, fish and game commission of the state of New York, has come to hand. A. Knechtel, '00, is the author.

'01. A. J. Cook is chemist with the Alma Sugar Company with his headquarters at Petoskey.

'02m. Dennis W. Smith is now located at 554 W. Monroe St., Chicago, Ill.

'02. Miss Marguerite Nolan gave an address on Jan. 15 before the Oscoda County Institute, which was much enjoyed according to all reports. The subject of her remarks was—Advantages of a course at M. A. C. Her talk was illustrated by specimens of wood-work, sewing—particularly dress-making.

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.

J. G. MOORE, '03.

S. B. HARTMAN, '03m.

M. P. WILLET, '01.

R. T. STEVENS, '01.

E. S. GOOD, '03.

H. N. HORNBECK, '01.

G. C. MORBECK, '01.

CLARA WOODLEY, '01.

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, JAN. 27, 1903.

THE three representatives of the M. A. C. debating team are working hard on the debate scheduled to take place during the spring term at Ypsilanti with the team from the State Normal College.

M. A. C. gained some valuable experience in the debate last year but this year the contest is to be held away from home and that is a handicap. All feel, however, that the M. A. C. team, composed of Messrs. Anderson, Moore, and Hartman, will worthily represent the institution. When you have time to think about it just ask someone what the prospects for M. A. C. are, in order to show you have not forgotten about the matter.

NEW M. I. A. A. CONSTITUTION.

At the Athletic Meeting held January 20, the new constitution of the Michigan Intercollegiate Athletic Association was read. At the next meeting the same will be approved, probably with modifications. The main points in the paper are as follows:

Article III. The members of the Association shall be Albion, Alma, Hillsdale, Kalamazoo, M. A. C., Olivet, and any other college admitted hereafter by unanimous vote of the board of directors.

Article IV. The governing body shall consist of a board of directors, one from each college. A director unable to attend a meeting may be present by proxy. Officers of board shall be president, first and second vice president, secretary and treasurer.

Article III. Limits entries from any one college to five in any single event and starters to two. Members must have no unpaid association dues.

Article IV. Expenses of Association shall be covered by per capita tax on students of institutions, during term in which Field day is held. Profits shall be distributed in same proportions.

Article V. Provides for proper auditing of bills.

Article VI. Members accepting constitution must abide by it; any member doing otherwise may be suspended or expelled by two-thirds vote of Board. The same applies to members not paying Field Day tax by six o'clock, p. m., on first day of meeting.

Article VII. Rules governing field day and indoor contests shall be those adopted by Amateur Athletic Union, rules for baseball shall be those of American League; for football, rules of Eastern Universities; for basket-ball, those of Y. M. C. A. Athletic Association of North America; tennis, those of Spaulding's official guide.

Articles V and VI. Gives board control of Field Day, and money matters of same, also prescribes duty for annual Field Day secretary of board.

Article VII. Officials at contests must never have been connected with any college in association without agreement of all colleges concerned in contests.

Article VIII. Constitution and by-laws of association may be amended by unanimous vote of board of directors. No amendment shall be put to vote at the meeting at which it is presented.

BY-LAWS—DIVISION I.

Article I. Makes annual provisions for meetings and duties of officers.

Article II. 1. Entries for annual meeting shall close 21 days before day assigned.

2. Questions of eligibility shall be finally decided by faculty of institution in which contestant is registered.

3. All contestants must be certified to by secretary or registrar of institution from which entered.

4. Protests and evidence must be filed 12 days before annual meeting. Defense must be filed eight days before.

5. For other contests than the annual track meet, protests must be registered one week before contest with faculty of protested man's institution and their decision shall be final.

Article IX. Same amendment rules as for constitution. X. Annual meetings in Battle Creek first Friday of October and at conclusion of Field Day. XI. Four directors form a quorum.

DIVISION II.—RULES OF ELIGIBILITY.

Rule 1. No person shall be allowed to compete at any athletic contest of association who is not an amateur as set forth in rules II and III, following.

Rule II Gives the definition of an amateur as one who has never competed in a contest open to professionals or for money or under a false name, or has never received money or its equivalent for athletic work or for coaching. These rules shall affect the present amateur standing of any athlete in college at the adoption of these rules.

Acting in official capacities in amateur athletics, connection with newspaper work, receiving traveling expenses to contests or playing on college teams against professionals shall not bar a man.

Rule III. A contestant must carry two-thirds work in regular or special course. A contestant without graduating cannot change colleges and participate in any contest until he has been away from his first college one year.

No student shall participate in a particular sport upon the team of any college or colleges for more than four years in the aggregate.

No student is eligible who has more than two "conditions."

No person having been a member of a college team during any year and having been in attendance less than one college half year, shall be permitted to play in any inter-collegiate contest the following and succeeding years until he shall have been in attendance six consecutive calendar months. Except in football, contestants must have attended college 10 weeks before entering any contest.

Rule IV. Provides for a board of reinstatement, consisting of one professor (exclusive of physical instructor) from each college which shall act in all cases where standing before entering college is questioned.

The above is merely an abridgement of the full constitution and by-laws which were discussed more fully in yesterday's and today's athletic meetings. All students should attend these meetings as this new constitution is of great importance. At the next meeting the rules governing Field Day will be discussed.

BACHELORS BURNED OUT.

The building known by the name of Station Terrace and by several other appellations was seriously damaged by fire on Saturday evening at 8 o'clock. Fortunately there was no wind and although the fire had a good start when discovered it was soon gotten under control. There was a slight delay, however, in getting water owing to the fact that a hydrant was frozen. All the denizens of the Terrace succeeded in escaping without injury to life or limb and with most of their personal effects. However, several bicycles and trunks stored in the attic were burned, the loss in some individual cases amounting to \$50.

The greater part of the house will need overhauling although the attic chiefly shows the effects of the fire. A defective chimney was evidently the cause of the fire as the framework on the west side of the house and next to the flue was burned from the cellar to the attic.

The bachelors wish to express their thanks to faculty, students, and others who have so unselfishly helped them in the emergency.

Friday evening the Hesperian Society entertained their friends at an eleven o'clock dance. Prof. and Mrs. W. O. Hedrick acted as chaperones and a very pleasant evening was enjoyed.

ASSOCIATION NEWS.

THE Y. W. C. A.

"Not by might, nor by power, but by my Spirit, saith the Lord of hosts." This, the association motto, was the subject of the Thursday evening meeting. Miss Terry led. We must not try to accomplish hard tasks in our own strength merely, and then feel discouraged when we fail. We must do everything with the help of God's might and power, which are always behind us.

The union meeting of the Y. W. and Y. M. C. A. last Sunday, Jan. 18, '03, was led by Miss Bessie Cordley. Theme: "Where am I! and, Where is my brother!"

The meeting was well attended and the interest very good. The meeting was one of our very best.

The Thursday evening prayer meeting was led by Mr. F. M. Morrison. Theme: "Faith." Evening lesson, Psalms, 23d and 24th chapters. The meeting was well attended and the interest excellent.

Chapel exercises Sunday morning were conducted by Rev. George F. Plummer. Text: St. John, 4: 37. "And herein is that saying true, one soweth and another reapeth." The discourse was very interesting and full of good suggestions.

The union meeting of the Y. W. and Y. M. C. A. Sunday evening was conducted by Dr. Chase, who gave a lecture on mission life in South Africa. The speaker gave some of his experiences as a missionary among the natives and a partial sketch of the Boer republic, mentioning some of the acts of misrule of the eccentric president, Kruger. From the lecture we would gain the idea that the life of a missionary among the natives of the South African republic is not one of unbroken pleasure. One of the greatest hindrances to the work there, as in many other fields, is the presence of intoxicating liquors. We need more men like Dr. Chase in the mission fields of South Africa.

Dartmouth College is very much pleased with the rank given its football team of 1902 by Casper Whitney and by Walter Camp.

The Missouri Agricultural College, located at Columbia, Missouri, announces a Two-Weeks' Course in Poultry Farming beginning March 2nd and closing March 14th, 1903. This work will be given by Mr. T. E. Orr of Beaver, Pennsylvania, one of the best poultry experts in America and Secretary of the American Poultry Association.

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.

Mr. Faunce writes that he is much improved in health.

There are one hundred and six-tens special students registered to date.

Mrs. Thomas Gunson had the misfortune Sunday to strain her wrist severely through an accidental fall.

The girls' basket ball team is to play at Flint this week the girls' team representing the School for the Deaf and Dumb.

The College authorities are building a retaining wall at the foot of the bluff on the river near the President's house to prevent caving in.

Many of the bachelors have succeeded in obtaining permanent places to room, some being located downtown and others at the College.

Mr. W. P. Chapman, a former special student, will talk before the Botanical Club this (Tuesday) evening. His remarks will be explanatory of cotton production.

At the regular meeting of the Debating Club on Thursday evening the subject, "Resolved, That dancing should be prohibited at ten o'clock parties," was debated. The affirmative speakers were Messrs. R. G. Thomas and Morbeck. The negative, Messrs. Hesse and Bird. The affirmative side won the debate. The subject for debate at the next meeting is "Resolved, That President Roosevelt is justified in refusing to arbitrate the Venezuelian question."

The Michigan Dairy Association meets at the College next week.

Prof. C. D. Smith and wife attended the banquet of the Michigan Millers in Lansing last week.

Prof. R. S. Shaw and Hon. Franklin Wells, of the State Board of Agriculture, were in Flint last week attending a sale.

A water-main between Williams Hall and the power house bursted the latter part of the week and caused a good deal of trouble.

The lecture on Theosophy and the Maud Ballington Booth lecture on Scenes from Prison Life were heard by many College folks.

Instructor Waterbury's paper on the Grand Trunk Sink Hole created considerable discussion at the meeting of the Michigan Engineering Society last week.

In response to a call for base ball candidates twenty or more have put in an appearance for practice. With nearly all of the members of last year's team in school it looks as though M. A. C. would have a good team this year.

After much discussion and many threats on the part of the Lansing city council, the street car system is somewhat improved. Instructor Taylor has devised an attachment for a Weston voltmeter that makes a permanent record of the readings of this instrument and when used on some of the cars proved that the line voltage is enough to furnish sufficient power for running the cars on time.

Prof. Vedder has been elected a director of the Michigan Engineering Society, and also a member on the committee to have charge of the topographical survey of the state.

The Eclectic Society entertained their friends in a royal way Saturday evening in the Armory. Mr. Prost's orchestra furnished the music. The musicians were placed in the center of the floor, a new scheme and a very satisfactory one. The usual dance program was enjoyed, after which light refreshments were served.

Another joke has been handed in: Prep.—Dr. Barrows, I have been looking up the geneology of the chicken family, and I have traced one branch of it back to the jinriksha.

Dr.—What! How's that? A jinriksha is something which is used to carry people in.

Prep.—Yes, I know. And my chicken geneology says it was the original Coch-in-China.

A. H. Zenner, of Detroit, of the Zenner Disinfectant Co., offers a gold medal each year, known as the Zenoleum medal, to the student of an agricultural college who shall produce the best report on the judging of three classes each of five kinds of live stock at the Chicago International Exposition. Three candidates must enter from each college. This year Mr. W. P. Snyder, of M. A. C., and brother of President Snyder, won the medal, with Wisconsin second, and Iowa third. In the two preceding years the medal has been won by Iowa.

For some time a student feeding experiment has been in progress in an effort to produce quality of mutton in lambs rather than excessive fatness. Sixty lambs were fed and fifteen have been slaughtered, and in each case the carcass proves that the experiment was remarkably successful. Arrangements have already been made whereby carcasses are to be displayed in Lansing and Detroit.

The first basket ball game of the season will be played in the College armory Wednesday evening, Jan. 28, between the Y. M. C. A., of Detroit, and M. A. C., and will in all probability be the hardest fought game that has been played by M. A. C. in several years. The visiting team has the reputation of being the best aggregation of basket ball players in Detroit. Saturday they defeated the State Normal 24 to 14. However, with most of the old players back and the hard work the team has been doing in the last two weeks, although in very inconvenient circumstances with regard to time, we cannot but expect that the reputation the team has established will be maintained. Every one come out with lots of clean, earnest, loyal enthusiasm and help our team win. Game called at 7 p. m. Line up—Detroit: Forwards, Magee and Schink; center, Hockady; guards, Kuhn (Capt.) and Gardner.

M. A. C.—Forwards, Morgan, Haftenkamp (Capt.); center, Balbach; guards, Tower and Tuttle.

The team plays Hillsdale College Saturday afternoon, Jan. 31, in the Armory. Game called at 1:30.

NORTON'S HARDWARE

Have you a MARQUART STEEL RANGE? If not, you certainly have not got the best. Your neighbor has one, ask her about the quality. We have sold a large amount of them and all give satisfaction.

Would be pleased to show them to you.

CHAS. M. NORTON,
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.

Spalding's Sweaters

Are the only ones to buy if you value appearance and wearing qualities. We have them in Black, Blue, Maroon and White

at **\$3.75 and \$4.50**

OUR HAT AND CAP STOCK is the up-to-date one of this city. Nothing but the latest and best find a place here and at prices guaranteed right. CAN SAVE YOU MONEY ON OVERCOATS and at same time give you a garment of very latest style.

Student patronage solicited.

Elgin Mifflin.

THE SIMONS DRY GOODS CO.

Remnants of . . .

Silks, Dress Goods, Velvets, Laces, Embroideries, Cottons, Linens, Carpets, Draperies, Etc., Etc.

At One-third to One-half off.

‡ to † off on all Cloaks and Suits.
‡ to † off on all Fur Scarfs, Muffs, and Near Seal Jackets during this sale.

Simons Dry Goods Co.

JANUARY REMNANT SALE

NOW ON.



Our "Leader."

The material in these shoes, while soft and fine, is selected with special reference to extra good service. Made in light, flexible soles, medium toe for dress occasions, or in heavy extension soles for street wear. Equals most \$3.00 shoes.

Our price \$2.50 a pair.

C. D. WOODBURY, Hollister Block.

FOUR O'CLOCK LECTURES IN THE CHAPEL.

The four-o'clock lectures given by various members of the faculty before the special students are proving of much value and interest. Inasmuch as these lectures are somewhat in the nature of popular lectures in the best sense of this phrase, they are consequently more appreciated by the average person than they would be otherwise.

On Wednesday afternoon Prof. Barrows closed his series of discussions on the Birds and Mammals of Michigan, most of the hour being taken up with a discussion of mammals.

Prof. Barrows stated that he desired, for his part, laws protecting hawks and owls as well as all other birds known to Michigan. There are about forty species of hawks and owls in this state in round numbers and only four or five can be considered injurious. It is a mistake to suppose that all hawks prove destructive to the farmer's hen yard as the hawk that does eat chickens is the exception. On the other hand, field mice form the diet of most hawks.

To illustrate his talk on mammals, Prof. Barrows had at hand various specimens from the museum. The opossum is the lowest mammal in Michigan and is in fact an order by itself, there being five or six other orders in the state. The opossum is found in three southern tiers of counties. Specimens of the Canada lynx and the bob-cat were exhibited and in connection therewith some interesting things were said in regard to the principle of giving bounties.

There is at present in Michigan a bounty of three dollars on the bob-cat and five dollars is paid for the head of a lynx. Many persons cannot tell the difference between the two animals and in consequence a bounty is often unjustly paid on a supposed lynx whereas the animal is the bob-cat. It is a peculiar provision of law that provides for displaying the head of the animal killed when bounty is to be received. As the feet of the lynx and bob-cat differ much, they and not the head should be shown.

Prof. Barrows went on to say that it has proved true in nearly every case both in this and in other states that the bounty is a useless expense. The bounty on the English sparrow was cited as an instance showing the truth of the statement.

Besides the specimens mentioned above there were shown specimens of the wolverine, as well as specimens of several other fur bearing animals. One comforting thought carried away was this—there is only one poisonous snake in Michigan, the prairie rattlesnake. The adders, blue racer, etc., are entirely harmless and could be made bosom friends of with impunity.

PROF. BOGUE ON MICHIGAN TREES

On Friday afternoon Prof. Bogue talked to the special students on Michigan trees. After making a few general statements about the forestry course at M. A. C. the stereopticon was brought into play and several slides of trees exhibited.

A slide showing the Cambridge elm was thrown upon the screen first and its history explained. In general no tree can surpass the elm for ornamental and shade purposes, but to develop normally elms, as

well as other trees, must be grown in the open, so as to receive light on all sides.

The soft and the hard maple were compared and the basswood and sassafras were spoken of in turn. The basswood grows in a variety of regions and soils, but must have moisture, hence does not do well in sandy places. The basswood is valuable for the making of butter packages and the less important parts of furniture. The sassafras Prof. Bogue considered of little value as lumber. The sycamore or buttonwood affords finishing lumber, but warps out of shape easily and must be used in small pieces. The white ash grows fast and needs plenty of light. Its wood is tough and flexible and consequently is good for the making of agricultural implements. The black walnuts, although valuable for lumber when of considerable size, do not pay for planting as well as some other trees, since it takes a great many years to acquire suitable growth for the purpose of lumber.

In speaking of beech Prof. Bogue advised the cutting out of beeches in the wood lot, as the shade of the beech kills out all other trees. In Norway, however, the beech is much esteemed. The oaks are the most valuable of Michigan's deciduous trees as the lumber and wood are used for so many purposes. Most of the discussion regarding the oak was given in yesterday's lecture as was that of the pine.

Programs for the Special Grape Meeting of the State Horticultural Society to be held at Lawton, Mich., Jan. 27 and 28 are at hand. At this meeting Mr. Longyear will discuss Insects and Diseases, illustrating his talk with the stereopticon. Prof. U. P. Hedrick will discuss methods of pruning, his lecture also being illustrated by the stereopticon. Mr. Gunson will give an account of the recent meeting of the Ohio society. Hon. C. J. Monroe discusses, Fruit Interests of Van Buren County and the Future Possibilities, and Prof. Taft discusses Inspection of Nurseries and Orchards.

The try-outs for the selection of the debating team to represent Notre Dame in a joint debate to be held with Oberlin early in March have begun at Notre Dame. Forty-eight candidates have entered the race, the largest number ever known. The question to be discussed with Oberlin is: "Resolved, That the United States should not retain permanent control of the Philippines." Notre Dame will uphold the negative.

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 Fall 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, Card, 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.

WAGENVOORD & CO.—Bookbinders, Blank-book Makers, Library and Art Bindings, Albums, Pocketbooks, Map Mountings, etc. Back numbers of magazines and periodicals supplied. Bell phone 378. 114 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. KOSITCHEK & 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 Aisdorf & 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. 222 1/2 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. Corner 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 219 Capitol Ave.

PLUMBERS.

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

SPORTING GOODS.

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