

The M. A. C. RECORD.

MICHIGAN AGRICULTURAL COLLEGE.

Vol. 18.

EAST LANSING, MICHIGAN, TUESDAY, FEBRUARY 4, 1913.

No. 19

Hear Gov. Ferris in the Armory tonight at seven o'clock.

M. A. C. GRADUATES AS FARMERS.

Some Interesting Data on the Graduates of Agricultural and Horticultural Courses.

The following data is furnished in response to numerous inquiries which have come to the college on account of a report to the effect that only about 2 per cent. of the graduates returned to the farm. The detailed data hereafter given for the last three years shows that of the students graduating from the agricultural course 40 per cent. returned directly to farms, 45 per cent. were employed to teach agriculture in colleges and high schools and to engage in agricultural experimental work. Therefore, over 92 per cent. took up work directly pertaining to agriculture when the 7.5 per cent. engaged in allied occupations are included.

Five four-year courses leading to degrees are offered by the Michigan Agricultural College, viz.: agriculture, forestry, engineering, home economics and veterinary science. The first of these, viz.: agriculture, including horticulture, is the only course specifically designed to prepare men for the occupation of farming. In the division of agriculture, including horticulture and forestry during the present year over 600 regular students have been enrolled, while the class graduating in these three branches last year numbered 81.

The following data relating to the graduating classes of 1910-11 and 12 furnishes some interesting information, viz:

Data concerning graduates of Agricultural Course including Horticulture for three years, 1910-11-12.

1910: Farming, 44 per cent.; Ag. Teaching and Ex. Work, 40 per cent.; Allied Occupation, 4 per cent.; Unallied Occupations, 8 per cent. Student, -----; Unknown, 4 per cent.

1911: Farming, 48½ per cent.; Ag. Teaching and Ex. Work, 40 per cent.; Allied Occupations, 8½ per cent.; Unallied Occupations, 3 per cent.; Student, -----; Unknown, -----.

1912: Farming, 27½ per cent.; Ag. Teaching and Ex. Work, 55 per cent.; Allied Occupations, 10 per cent.; Unallied Occupations, 3 per cent.; Student, 1½ per cent.; Unknown, 3 per cent.

These figures show that for the past three years approximately 40 per cent. of the graduates in agriculture and horticulture have returned directly to the farm. The 45 per cent. engaged in agricultural teaching and experimentation are employed by agricultural colleges, experiment stations and rural high schools offering courses in agriculture.

The number employed to teach agriculture in high schools in Michigan and elsewhere has increased very rapidly during the past two or three years. Michigan alone has twenty-five high schools offering courses in agriculture thus reaching students most of whom do not expect to enter colleges or universities.

Further extension of this valuable line of work which is being organized under the direction of the department of agricultural education of the college is dependent upon the supply of properly trained teachers and the Agricultural Colleges are the only source of supply. The teachers of agriculture and science pertaining thereto in our colleges and high schools combined with the investigators of the experiment stations occupy a very important place in stimulating the improvement and development of the agriculture of the country. Graduates, though induced to become teachers of agriculture for a few years, are eventually drawn back to the farm and become better farmers, citizens and leaders in their communities because of the valuable training acquired from a few years' experience as teachers. The State of Michigan has a right to feel proud of the long list of agricultural educators of national reputation which the Michigan Agricultural College has produced—men who have accomplished wonders in the development of American agriculture besides which their efforts as individual farmers would have been insignificant.

Since the winter of 1897-08 the college has sent back to Michigan farms approximately 2,600 men to which the present session is about to add 325 more. These men return to the farm enthusiastic to improve their farm methods and at the same time filled with a spirit of loyalty to the institution.

SACRED CONCERT.

At 3 o'clock next Sunday afternoon, Feb. 9, in the armory, the M. A. C. choir of some thirty members, under the direction of Miss Freyhofer, and assisted by the Bemis String Quartet, and Miss Phillips, soprano, Prof. Killeen, tenor, and Prof. Huston, bass, will give the cantata, "The Holy City," by Alfred R. Gaul.

No modern cantata of moderate difficulty is more generally known, nor more generally a favorite than "The Holy City." The beauty, impressiveness, and variety of the music have won for it the widest acceptance.

Admission is free, and every one is cordially invited to attend, residents of East Lansing, as well as the faculty and students. Come and bring your friends.

LAND GRANT COLLEGE.

Engineering Association.

On January 24th and 25th was held in Washington a convention of the Deans of Engineering in Land Grant Colleges, at which Dean Bissell was present.

A permanent organization was effected under the provisional name of the Land Grant College Engineering Association. It is purposed to have meetings once a year for the purpose of discussing the interests of engineering and mechanic arts at the land grant colleges with a view to furthering those interests in every possible way. Thirty institutions were represented at this first meeting.

The officers for the coming year are as follows:

President, J. P. Jackson, Pennsylvania.

Secretary and Treasurer, A. Marston, Iowa.

H. W. Tyler, Massachusetts,

W. M. Riggs, South Carolina,

G. W. Bissell, Michigan,

Members of the Executive Committee.

THE ORATORICAL.

About 200 students and friends were out Friday night to hear the contestants for oratorical honors. The contest was a good one and thoroughly enjoyed by those present—in fact the effort was very worthy of a much larger hearing.

Mr. I. Margolis was given first place on the oration "War and Poverty;" Mr. K. M. Klinger took second with an excellent oration on "The Awakening of China," and William Aisenstein was given third place on "Universal Peace."

Mr. Margolis, beside having a splendid oration, was exceptionally strong on delivery. One of the judges gave Mr. Klinger first place and his composition and thought was very highly praised. As a whole the contest was a good one and it is to be regretted that so few heard it.

The judges were Dr. O. J. Price and Attorney Carl McLean, of Lansing, and Mr. Luther H. Baker, of E. Lansing.

Mr. Charles Richardson of Battle Creek will give an entertainment in the auditorium of the People's church Friday evening, Feb. 7. Mr. Richardson is well and favorably known as an entertainer and those who find it possible to go will be well repaid for the effort. The entertainment is given under the auspices of the Womens' Club and for the benefit of the student relief fund. Admission will be 25c and 10c.

ALUMNI

'70.

Charles W. Garfield, of Grand Rapids, is spending the winter months at Pasadena, Calif., in company with his old classmate, Henry Reynolds, former secretary of M. A. C.

'90.

We are indebted to Mr. Dwight S. Cole, '93, for the announcement of the death on Jan. 27, of Joseph Harlan Freeman, '90. Mr. Freeman was consulting engineer and expert in patent cases in New York City and was most successful in his line of work. His death occurred following an operation for pleurisy which was performed Jan. 22. It was thought that the operation was entirely successful, but his heart gave out and he was unable to rally. A more extended notice will be given next week.

'05.

Announcement is made of the birth of a son, John White, to Mr. and Mrs. Robert Ferguson, now of San Diego, Calif. Both Mr. and Mrs. Ferguson were former Lansing residents.

'06.

Jno. R. Lambert, draftsman with the Phoenix Bridge Co., of Phoenixville, Pa., designed 15 bridges during 1912. These ran all the way from a 100-ft. to a 246-ft draw span.

'07.

Fent E. N. Thatcher, formerly with the Beach Mfg. Co., of Charlotte, is now structural engineer in Grand Rapids, with offices at 207 Shepard Bld.

'08.

E. C. Krehl of the above class, has been with the Detroit Board of Health, division of milk inspection, for the past six months. His residence address is 232 Townsend Ave.

'11.

O. H. Johnson, 1911, civil, formerly of Cloquet, Minn., has recently received his appointment as assistant director of Manual Training in the public schools of River Falls. It is at a substantial increase in salary.

'12.

J. H. Carmody has a write-up of the Kentucky Hort. Society in a recent number of the *Market Growers Journal*.

'12.

Charles A. Stahl has accepted a position with the Ducktown Copper, Sulphur and Iron Co. of Isabella, Tenn., as assistant chemist, and left for his work Jan. 28.

The M. A. C. RECORD

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B. A. FAUNCE, MANAGING EDITOR

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TUESDAY, FEBRUARY 4, 1913.

JANUARY, 1913.

The month of January, just closed, was remarkably warm compared with January, 1912. Last year the average temperature for the whole month was only 9.2 degrees, which was three degrees colder than any other January on record. This year the monthly average was 26.2 degrees, just 17 degrees warmer. Last year there were 14 days with the temperature below zero in January, while the lowest recorded in January, 1913, was one degree above zero on the 13th. The lowest last year was 17 degrees below on the 13th.

The normal temperature for January at M. A. C., found by averaging the temperatures for many years back, is 22.7 degrees, so the month just passed was 3.5 degrees warmer than normal. It seemed like a very warm January, but there have been many months of the same name which have been still warmer, during the past 40 years. The temperature of the month of January, 1890, was 32 degrees, and the same temperature was recorded also in January, 1906. The temperature for the month of January, 1880, was 37 degrees, this being the warmest month on record.

There was nearly twice the depth of snowfall this January as compared with last.

COMMERCIAL CULTURES.

It is interesting to note the attempts of commercial firms are making to interest the good farmers of Michigan in cultures for the inoculation of alfalfa and other legumes. There is little doubt that cultures produced by these firms are very valuable, but the claims made are usually somewhat exaggerated, are apt to be misleading; in fact, disappointment is sure to follow if one accepts their literature at face value.

The department of bacteriology has had numerous occasions to save the farmers considerable sums because of their ability to furnish these cultures at cost of production. This cost is found to be only a small per cent. of the amount usually charged by such firms. For instance one grower who had C. O. D. package amounting to more than \$50, found that the same amount from the department at M. A. C. would cost him \$3.50.

The Research Club will meet this week on Wednesday evening in Room 314 Agricultural Building at 7:30. Mr. Patten will speak on "Quality of Nitrogen in Michigan Fertilizers."

FORESTERS' CLUB.

Mr. William S. Taussig's lecture before the Foresters on Electricity as Applied in Logging and Lumber Manufacturing was enjoyed by a large number of the student body. The speaker brought out many interesting points, as the subject was treated both from a popular and technical standpoint. Actual conditions, operations and appliances were shown by a fine set of lantern slides. The first views brought out the old methods, followed by others showing where electrical apparatus had been installed and accomplished better and safer results. Mr. Taussig brought out the points that the application of electrical devices in wood working line of industrial work is simply keeping pace with the industrial development along all lines.

As values have increased rapidly in all sections it has been necessary to produce greater returns. Loggers and lumber manufacturing interests are bringing the best skill in the country to work on the development of new methods. These new methods must produce increased returns on investment. A better utilization of raw materials and the producing of saleable by-products is one of the main features. The adoption of electrical appliances go hand in hand with conservation by promoting closer utilization at every phase of the work. Water powers are rapidly being utilized for power development, and slabs, saw dust, etc., the waste of the mills which has been used for fuel is bringing better returns after being manufactured into paper pulp, distillate oils, etc.

Electric appliances for use in logging and lumber manufacturing have come to the front because of the easy connection of driving power to the load: ease of extension of plant in any direction and ease of determining power-cost for each machine.

The speaker in conclusion spoke of the great fields open to investigators who could study the problems of the closer utilization of forest products and make themselves useful to the operators by solving these problems.

After the lecture the foresters had an informal feed at the laboratory where they all met Mr. Taussig and discussed phases of the work.

CHICAGO BANQUET.

The 1913 banquet of the Chicago M. A. C. Alumni Association will be held March 1, at the New City Club, which is inside the loop about 100 feet south of the Great Northern Hotel, and within three blocks of the Grand Trunk depot.

Prof. Woodworth writes that the spirit of the Chicago boys seems to be just right for a great meeting, and a most cordial invitation is extended those who have been connected with M. A. C. as student, employe, or resident to be on hand.

The place of the banquet is 315 S. Plymouth Court (City Club) and the date is March 1. Remember the date and place and notify Frank Bauerle, '92, 726 S. Desplaines St., president of the association, or G. M. Hebblewhite, '06, secretary, at 6934 Chauncey Ave., Chicago, if it is possible to attend this banquet.

BASKET BALL.

M. A. C. 33—Hope College 26.

The home team returned from Holland Thursday morning with another, the fourth, victory to relate. The strong Hope team was played off their feet during the first few minutes of the game and were unable to come back strong enough to win out. The men were all in good condition, and the game as reported was an excellent exhibition of the winter sport. It was our first game away from home and certainly started the ball in the right direction.

The work of Spencer for the home team was a feature, while that of Stegenga for Hope was most clever. Spencer did not allow his man to register a basket from the field, while the latter scored 12 points for his team.

The Miller brothers played the entire game at the forward positions and put up a good game. Very little rough play was indulged in, some 25 fouls being called, of which M. A. C. was charged 12 and Hope 13.

SUMMARY

HOPE—26. M. A. C.—33
Lokker, Verburg.....R. F.....Miller
Hekhuls.....L. F.....B. Miller
Stegenga.....C. Chamberlain
Verhoek.....R. G.....Goss
Van Bronkhorst.....L. G.....Spencer
Final score—Hope, 26; M. A. C., 33.
Score first half—Hope, 15; M. A. C., 21.
Goals—Lokker 2, Stegenga 6, Miller 4, B. Miller 4, Goss 4, Verburg. Baskets from fouls—Lokker 5 in 7, Verburg 3 in 5, Spencer 9 in 13. Fouls committed—Hope 13, M. A. C., 12. Referee—Upton, Grand Rapids. Attendance, 500.

On Thursday evening of this week the strong Northwestern team comes here for a game and some hard practice will be carried on in the meantime. This should be an exceptionally good game and every one will want to see it.

HORT. CLUB.

The members and guests of the Hort. Club had the pleasure of hearing from a typical "back to the land" man last Wednesday evening. When President Pailthorpe introduced Mr. Granger Whitney, of Grand Traverse County, formerly of Detroit, and a graduate of the Massachusetts Institute of Technology, the members were a bit uncertain as to his connection with horticulture. Nevertheless he soon made his position clear. For many years he had followed the profession of a metallurgist, but always there was present in his mind the desire to own and operate a fruit farm of his own. He admitted that he was in the business because he liked it. After an exhaustive investigation of the fruit prospects of various states, from coast to coast, he chose Michigan as the basis of his operations. One year ago Mr. Whitney took the short course in fruit growing at the college and became so interested that he returned this year for more training. He made very clear his pleasure and satisfaction at being able to put into actual practice the ideas and suggestions obtained in the laboratory and the class room.

An interesting new thought to many of the members was to the effect that he personally enjoys the study of the social problems of the

rural districts as compared to those civic and political problems that the city man is so interested in. Through the courtesy of Mr. Whitney the members were treated to a little talk on the life and duties of a metallurgist.

Following Mr. Whitney's talk Mr. L. R. Servis told of the history and importance of the Baldwin apple, after which they were sampled, but unfortunately not by all those present. A short business meeting was held to clear up the business of the Hort. Show.

VETERINARY SCIENCE CLUB.

The regular Vet. Science Club meeting on Tuesday evening was well attended and greatly enjoyed. M. B. Kurtz spoke on the subject of the advantages of state schools over those of a private nature offering courses in veterinary science. He was particularly well informed on this subject as he had recently visited certain private schools. He handled the subject with considerable skill and furnished a very entertaining talk.

Following him Mr. L. A. Mosher gave a talk on current events, including the present army veterinary bill, which is now before congress, relative to southern cattle fever. Under present methods of eradication "dipping" is being employed largely.

The government plan is to set aside a fund of \$1,000,000 for this work, each state seeking aid to furnish a share of the expense. It is anticipated that under this arrangement the plague may be stopped.

These current event topics created an animated discussion which was taken part in by several of the students, by Dean Lyman and by Dr. J. S. McDaniel of the department.

Following the program and discussion a recess was called and refreshments occupied the attention of all.

The next meeting of the club will be held Feb. 11, and the program for same is already well arranged.

FARMERS' CLUB.

Senator Powell, of Iowa, spoke before the Farmers' Club on the benefit of the college to the state. He made the statement that only about 25 per cent. of the graduate Ag. students return to the farms, and attributed this condition to the great demand along technical lines for the well trained agriculturist to fill positions that pay far better than farming does. At the present these men who have spent four years in getting a college education are worth more to the state and to themselves in other lines said the senator.

In concluding he praised the work of the school and expressed himself as well satisfied that the state was getting value received for the funds invested.

The chemical department is in receipt of some very fine photographs from the B. F. Goodrich Co. of Akron, Ohio, representing the gathering and manufacturing of rubber. The Goodrich Co. is the largest rubber manufacturing plant in the world.

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ABOUT THE CAMPUS

H. V. Geib, '12, of Caledonia, was a college visitor a day or two last week.

Instructor Shepard, of the civil engineering department, was confined to his room Friday and Saturday with a case of grippe.

J. G. Hayes, '11, has completed his work as official tester for the Dairy Department and will spend a few weeks at his old home in Penna.

About 40 members of the class of 1913, who entered as sub-freshmen, assembled in the chapel this evening at 4:20 to make plans for a banquet in the near future.

The class basket ball games were hotly contested, honors finally going to the sophomores. According to present reports, the juniors won second place, and the freshmen third.

At the meeting of the Gensing Growers held in Lansing last week, Dr. Bessey spoke on the nematode disease of gensing and methods of soil sterilization. Prof. Jeffery also spoke before the growers on soil drainage.

Dean Gilchrist entertained the division faculty in home economics at dinner Friday evening of last week. The division includes, in addition to the department teachers, the following faculty members who, with their wives were present: Profs. Ryder, King, Myers, Johnston, French, Hedrick. Other members were the Misses Holt, Snelgrove, Taylor and Mrs. Robson.

Prof. W. H. French attended the teachers' institute at Benton Harbor last week.

Mr. Lyman Love, '96, a prominent dairy farmer, of Farmington, Mich., visited M. A. C. last week for the first time in nine years.

Instructor Hood, of the Hort. Dept. was in Benton Harbor, and St. Joseph last week arranging for co-operative experiments on tomatoes.

The short course men in agriculture have been having some good work along the line of electricity and dynamos as applied to farm problems during the past week.

C. F. Barnum, '12, who has been doing testing work for Prof. Anderson, has closed his work and has returned to Coat's Grove to look after his farming interests. His brother H. H. Barnum, also 1912, will take care of the testing work until spring work opens on the farm.

The class of 1906 of the University of Nebraska, recently made a useful, as well as an ornamental, gift to their alma mater. The gift is in the form of a new seat, made of white Bedford granite, set circuitously around a large ash tree with an entrance on the east side. The formal presentation is to be made at commencement time. M. A. C. seems to be lacking in lawn seats. Here is one which would be almost indestructible. We have a class stone, a class fountain, why not a class lawn seat?

The date of the Peace Oration contest has been set for March 21.

The Ionian party was held in the Armory Saturday evening and the Columbians held their winter term in the assembly hall of the Agricultural Building.

Prof. H. H. Whetzel, professor of pathology in Cornell University, visited the botanical department on Friday of last week, having been in Lansing to give an address before the Michigan Gensing Growers Association. Prof. Whetzel will spend his sabbatical year abroad, leaving about July 1.

The Eaton Rapids high school will be at East Lansing Friday evening with both boys' and girls' basket ball teams to play with the public school teams at this place. The games will be played in the Armory and the first one called at 7 o'clock. Previous games with this school resulted in a victory for the home boys and a defeat for the girls.

Dr. Saphonisba P. Breckinridge, assistant dean and professor of Social Economics in the University of Chicago, will be the guest of the Home Economics Dept., Tuesday, Feb. 18. Miss B. has been an active worker at Hull House, in the juvenile court, the immigration board and other sociological movements. She will give an address on some phase of her work at 4:30 in the chapel to which all interested are cordially invited. The subject will be announced later.

"Nick" Prakken, with '07, made college friends a call on Jan. 30. Mr. Prakken is with the Sprague Electric Works, Chicago.

The Veterinary Clinic continues to keep up an interest. The variety and quality of the cases are of a character to afford abundant opportunity of instruction to students taking the veterinary course.

The Poultry Institute and show in the pavilion will occupy the attention of large numbers next week. The institute begins on Monday and continues during the entire week. Good speakers, competent judges, plenty of birds and a banquet are promised.

The short course creamery men have organized a club which meets each Thursday night in the Dairy Building. Talks and discussions are carried on by the members and also by those outside. Last Thursday evening Instructor Musselman gave a very interesting talk on "Testing the Steam Tractor for Plowing in Western Canada."

At a recent meeting of the Mandolin Club the following officers were duly elected: President, Don Stone; Vice President and Secretary, F. H. Mueller; Director, G. A. Newhall; Librarian and Treasurer, M. M. Cory. A constitution and by-laws were adopted, considerable new music purchased, and the club bids fair to be a prominent factor in M. A. C.'s musical attractions. The club consists of some 20 members.

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OLIVET GLEE CLUB.

Judging from reports of the *Battle Creek Enquirer* and other press notes, East Lansing is most fortunate in having an opportunity on Feb. 12 to hear the Olivet Glee Club. The company consists of some 17 or 18 voices, and their program contains in addition to selections by the club, several instrumental solos, vocal solos, string trio and quartett. The program closes with a half hour of college songs, stories and recitations, the scene being a student room in the men's dormitory of Olivet college.

The program will be given in the People's church on the evening of Feb. 12 under the auspices of the East Lansing high school. The price of admission is 25 cents.

ABOUT THE CAMPUS

Prof. Anderson, Instructor Denison and other members of the Dairy Dept., will spend some time in Saginaw this week in attendance at the State Dairymen's Convention, held Feb. 4-7.

In the second match of the inter-collegiate rifle club series, M. A. C. defeated Washington State College, the points standing 911 to 878. The Home Club also defeated U. of Wis. 917 to 896.

Prof. Nye reports a fine meeting at Hastings last week. In conjunction with Mr. Comfort A. Tyler he conducted a one-week farmer's course. The attendance was from 45 to 50 each session, with excellent interest.

Paul Thayer, '00, and wife, left Friday for Wooster, Ohio, where Mr. Thayer will continue his work in connection with the Ohio Experiment Station at that place. He has been studying for his advanced degree at M. A. C. during the winter.

Invitations have been issued for the marriage of Mr. Lawrence R. Queal, of Hamburg, Mich., to Miss Lesley Thorburn, of Lansing, on Tuesday, Feb. 11. The wedding will be at high noon at the home of the bride's parents, 220 East Main street.

All senior engineers have been requested to select subjects for theses on or before Feb. 15. This is necessary in order that they may have plenty of time to look the matter up and form some definite plan for carrying on the work, which must also be approved by the department.

Mr. Uphof, of the botanical department, has been arranging for the herbarium, the large collection of plants made by Dr. Bessey in Southern Florida and elsewhere, as well as the collection made by the biological survey of the Michigan Geological Survey. These will make a valuable addition to the herbarium, and will completely fill the already crowded cases.

Mrs. Snyder entertained on last Friday afternoon in honor of the brides at the college, of which there are an even dozen.

The members of the state board, including Pres. Snyder and Secretary Brown, with members of the legislative committees on the Agricultural College, were entertained at dinner in the Women's building, Wednesday evening. The small dining room was used, the serving being done by members of the senior class in home economics.

The second year agricultural short course men, with Instructor Musselman, made visits of inspection Saturday to some of Lansing's manufacturing plants. Among these were the Bates Traction Co., Novo Engine Works and the New Way Engine Works. The purpose was to study the manufacturing processes of gas engines and tractors.

H. S. Reed, formerly assistant professor of chemistry, was at M. A. C. to attend the 'Tie Banquet on Saturday night. The Detroit Testing Laboratory, with which Mr. Reed is connected, recently changed locations and now occupies an entire floor at the corner of Woodward Ave. and Woodward Terrace. The change became necessary on account of the increased volume of business.

The East Lansing public school which added the 12 grade last September, is now an accredited high school and its graduates will therefore be admitted to the 4-year courses at M. A. C. without examination. The present senior class consists of seven members—Frank Davis, David Peppard, Eugenie Armstrong, Hazel Povey, Mary Foster, Esther Velleau and Josephine Frye.

There is a rumor about the campus that several houses will be erected during the coming summer north of the college, and that the enclosed county drain in that location is to be used as an outlet for sewage. It is true that there was slipped through the last legislature or perhaps the preceding one an act which permits the emptying of sewage into a county drain. This act, however, does not grant the privilege to pollute a stream and create a nuisance. The county drain referred to is not a county drain on the campus, but an open stream almost dry at certain seasons of the year. If sewers are connected with this drain the condition in front of Abbot Hall and in the botanic garden would become unbearable and of course could not be permitted. But this is not all. Should the drain become clogged at any time, and during high water, this sewage would be thrown back into many basements in East Lansing, as well as with the basements of college buildings. The state board of health would scarcely stand for such a condition at a state institution.

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