

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 12.

LANSING, MICHIGAN, TUESDAY, FEBRUARY 12, 1907.

No. 21

## WEEKLY CALENDAR.

*Tuesday, Feb. 12.*—Farmers' Club, Agr. Bld., "Machinery as a Means of Economizing Farm Labor," L. J. Smith.

Forestry Club, Dairy Bld. "The Aesthetic Value of Forestry," Dr. Blaisdell.

Nature Study Club, Botanical Bld. "Orchids," Mr. Gunson.

*Wednesday,* Horticultural Club, Hort. Bld. "Pedigree Strawberries," R. S. Beatty of Three Rivers.

Dairy Club, Dairy Bld. Mr. A. C. Anderson, speaker.

*Thursday,* Association meeting. Warren L. Rogers will speak at the Y. M. C. A.

Debating Club in No. 7, College Hall, at 7:00.

*Friday*—Military hop in the armory.

Entertainment in chapel by Gertrude Upholt Hansens, of Grand Rapids.

*Saturday*—Political Science Club in Reading Room, 7:30, Allen T. Burns, of Chicago, on the labor question.

*Sunday*—Chapel exercises at 9:00 a. m. Allen T. Burns, of Chicago, speaker; subject, "The Work of Chicago Commons."

Association meeting in the evening at 7:00. Mr. Burns will speak on "City Problems from the Settlement Standpoint."

*Monday*—Chorus practice, 6:45.

*Tuesday, Feb. 19.*—Basket ball with Detroit Y. M. C. A.

## DEBATING CLUB.

The meeting of the debating club last Thursday evening was better attended than usual and those who turned out for it were rewarded by hearing a very interesting debate on the question "Resolved, that the Honor system should be adopted at M. A. C." The "honor system" was well defined and upheld by the members of the affirmative Messrs. Darby and Bowerman, but the flaws and drawbacks on the system as represented by Messrs. Gregg and Crane of the negative turned the decision in their favor. The work of the debaters showed plainly that they had prepared themselves thoroughly on the question and spoke fluently and without hesitation.

The debating club is fortunate in securing Prof. Hedrick and Mr. Gunson for the debate next Thursday on the question of the "Progressive Inheritance Tax." As we all know these two gentlemen are exceptionally good debaters and have crossed swords before so we should turn out "en masse."

The preliminaries for the purpose of choosing the team to debate against Ypsilanti will take place next Saturday evening. There will be four debates and will be held respectfully in the Union Literary, Columbian, Eunomian, and Aurorian society rooms. Everyone is invited to attend one of them.

## BASKET BALL.

In one of the cleanest, fastest and most exciting games of the season M. A. C. defeated Adrian in the armory Thursday evening 54 to 24. Adrian was making a trip and desired to include this college, so the management accepted the date and hurried the advertising. A very good crowd witnessed the game in spite of the unfavorable time of week. The best of feeling prevailed throughout. For M. A. C. the whole team played a star game, McKenna, Krehl and Vondett securing the most of the baskets. Brittian and Baxter for the visitors put up a fine game. The line up was:

M. A. C.		ADRIAN
Vondett	center	Baxter
Krehl	{ forward }	Brittian
Mills		
McKenna	{ guards }	Finch
Hanish		Jones
Westerman		Arnott

Of baskets thrown McKenna secured 9, Krehl 7, Vondett 7, Hanish 3, Baxter 3, Brittian 3, Finch 3, Arnott 2.

Lazear of Adrian, referee.

Two of the class series were also played on Thursday evening. The sub-freshmen were beaten by the sophomores 25 to 5 and in a most exciting contest the juniors won from the freshmen 8 to 7. There are now three teams tied for first in the class series—sophomores, freshmen and seniors—each having lost one game. There is yet one game to be played to complete the series, seniors vs. sophomores.

On Tuesday, Feb. 19, Detroit Y. M. C. A. comes here for a return game of basketball. This will be the feature of the season as they have the only team which have defeated M. A. C. and that on their home floor 31 to 14. They have defeated every state team they have played this season and our management are making preparations for the largest crowd which has ever attended a basketball game here. Temporary bleacher seats will be erected and a section of these will be reserved.

The track team goes to Notre Dame Saturday where an indoor meet is to be held. It will be M. A. C.'s first real try out under such conditions as exist at N. D. and while we do not expect to win the meet, the boys will without doubt make a good showing.

All other sports are being cut and time spent in getting our team in shape. While it has not been fully decided who will compete for all events, the following are probable,—Capt. Waite and Carr will take care of the long distance runs; Bignell and Allen the middle distances; Small, Pearsall and Vaughn, the dashes and hurdles; Burroughs the shot put, Gilbert and Gongwer the pole vault. There are three or four others to be selected. Others who have shown up creditably are Phippeny, Griffin, McKenna, Oviatt and Campbell

## SENIOR SLEIGH RIDE.

At 2 p. m. Monday three bob sleds, loaded with seniors and their friends, started for their annual sleigh ride. The sleighing, with the exception of a few spots, was very good, and it was a jolly eight miles ride to Bath. The city, which had been notified of our approach by the '07 yell, turned out in a body to meet us. Dr. Dryer, one of the principal citizens, escorted us to the city hall, where a warm fire, an excellent floor, and an imported orchestra awaited our coming.

Dr. Dryer made a speech in behalf of the citizens extending to us a hearty welcome. Dancing followed until six o'clock, when supper was announced in the banquet hall on the first floor. This was responded to with a rush as every one was hungry after the long ride and dancing. The menu consisted of oyster stew, veal loaf, scalloped potatoes, beans, rolls, pickles, cake, coffee, coffee, cake, cake and coffee. After supper the dancing continued, with an occasional stroll on Broadway, or a run over to the grocery store for stick candy or gum. Eight o'clock came all too soon, but the ride home was far from an inferior part of the trip. It was a bright starlight night, just cold enough to be comfortable.

The singing and story telling were broken up now and then by such pleasant and diverting incidences as; one sleigh getting stuck, another one turning over and rolling its load in a snow drift, and Walt Small holding Pete Shuttleworth's hand (by mistake). Judging from the remarks made on reaching the college, nearly everyone was sorry to end the ride, and all voted the senior sleigh ride the best event of the year. The trip was made much pleasanter by the presence of Mr. and Mrs. McCue and Mr. and Mrs. Alger who kindly acted as chaperons.

## SOMETHING LACKING.

I saw her once before. She was younger then and spoke her native tongue. She touched my soul and so she did with others. The house was full of that peculiar atmosphere which transforms the stage and audience into a single harmonious one, that atmosphere which is so sadly lacking in the English theatre. She did not touch me last night; I left the house in the same mood as I entered it, not to the least inspired. "Why is it, Heavens?" I asked myself.

Perhaps her age, perhaps her broken English; but above all, it was the lack of harmony between the stage and the audience; they must inspire each another, feel each other's soul or there can be no real art.

"They are going to have a scrap pretty soon," remarked a fellow behind me. "I wish they would," responded his neighbor, and swallowed a good, big yawn.

Where people come to "take in a show" there can be no inspiration—and there was none.

## ALUMNI.

'94

C. J. Foreman is studying for an advanced degree in the University of Wisconsin. He has been for some time a teacher in the Shattuck school at Faribault, Minn.

'03

In the last issue of the *Michigan Farmer* Frank Phillips of the above class has a most interesting article on the Cliff Dwellers of New Mexico. Mr. Phillips recently visited the region where this strange people once lived and gathers from the nature of the dwellings, curios, etc., something of the mode of life of this strange people. Several cuts are used to illustrate his article.

## AURORIAN.

The Aurorian Literary Society gave an eleven o'clock dancing party at the armory Saturday evening, Feb. 9. There were about fifty couples present, and all seemed to have enjoyed the evening. Miss Linton, of Otsego, was among the visitors. The armory was quite tastefully decorated with bunting, banners, flowers, ferns, and cozy corners. Prof. and Mrs. Shaw and Prof. and Mrs. Sackett kindly acted as chaperones. Baker's orchestra furnished the music.

## LOVEY MARY.

Gertrude Upholt Hansens presents in monologue form "Lovey Mary" by Alice Hegan Rice, in the Chapel Friday evening, February 15, at 7:30. This entertainment is for the benefit of the M. A. C. public school and will be well worth a good patronage. Music will be furnished by the Mandolin Club and Mr. I. B. Schroetter will sing "Conquered" and "Still is the Night." Tickets will be on sale at the co-operative store and the secretary's office. Remember the date and the place. Following is the program:

"Lovey Mary," Alice Hegan Rice.

### PART I.

"For life with all it yields of joy or woe,  
And hope and fear,  
Is just our chance o' the prize of learning love—  
How love might be, hath been indeed,  
and is."

A cactus plant. A runaway couple.  
The Hazy household. An accident  
and an incident.

### PART II.

"There is in the worst of fortunes  
The best of chances for a happy  
change."

The dawn of a romance. The losing of  
Mr. Stubbins. Neighborly advice. A  
denominational garden.

### PART III.

"The love of praise, howe'er conceal-  
ed by art,  
Reigns more or less, and glows in  
every heart."

A timely visit. The Christmas play.  
Reaction. The cactus blooms.



THE M. A. C. RECORD.

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TUESDAY, FEB. 12, 1907.

THE following is from No. 7 of the first paper published at the College by the "Pen Yanker's Society." The paper is dated October 24, 1868, and is certainly an interesting little sheet. The name given the paper is *The Bubble*. The librarian respectfully requests that any one having copies of *The Bubble*, and especially of No. 2, and would care to part with them, they would be gratefully received by her. We quote the following:

"Preserve Your Bubbles. — There will be a time, years hence, when these little papers will be much sought after; for persons occupying the places we now occupy will have great anxiety to know what their predecessors have thought and felt. Produce a copy of *The Bubble* a dozen years hence, and how eagerly will it be perused! What would we of the present time give to see, if such there were, a paper published here eight or ten years ago? The sentiments—the maxims—the jokes—the entire literature of those dark ages in our institution's history, are buried in oblivion. In order that more than the mere names of the present occupants of these halls may be known to their successors, let the *Bubbles* be preserved."

BAND CONCERT.

The band concert in the armory Friday evening was attended by about 200 College people, and all seem well pleased with the work that is being done by Mr. Egerton and his players. The band now comprises 25 pieces, and is without question the best the institution has ever had. The marches were especially good, and the cornet solos by Mr. Clark were certainly a feature of the program. Miss Porter is always a favorite with M. A. C. people and her vocal solos were much enjoyed. Mr. Hopphan showed in his playing the possibilities of his instrument, and altogether the program was nicely arranged and also well executed.

Mr. Egerton deserves great credit for his untiring efforts in perfecting the band organization, and the decided improvement over former years should be a source of satisfaction to him.

OUR MILITARY, MECHANICAL, AND ELECTRICAL ENGINEER, THE ARTILLERYMAN.

(Continued from last week)

The choice of the time and conditions lies with the naval commander, and certain he is to choose those most advantageous to himself. His crews may remain snugly in their hammocks until "General Quarters" is sounded, while the coast artilleryman must keep every gun, every range finding station, every power plant, every search-light, and every casemate, constantly manned with its full complement day and night. This condition at the seat of war might easily extend over a period of six, nine, or even twelve months. Two complete reliefs for all stations and three for the most trying ones are then imperative. Fancy, if you can, the physical and mental strain under all conditions of weather, with possibly an enervating climate for even the man with four hours on and eight hours off.

The question of the minimum peace, strength required now resolves itself into determining the minimum garrison required at each fortification to keep the material in its highest state of efficiency, and to be capable of readily assimilating several times its number of raw and inexperienced recruits of both officers and men. It is difficult to find an analogue among our various commercial industries, but let us take a large machine tool plant. What is the minimum proportion of experienced hands of all the kinds you require, with which you would undertake at once to turn out the maximum output of the plant, working night and day, when you must also keep the plant in repair, protect it from damage by fire and the spies of your rivals, and at the same time feed, clothe, house and doctor your men, supposing that your new hands from superintendent down must come from all professions and trades other than that for which you require them? Would one complete shift of machinists, engineers, clerks, property men, and cooks be too much? It is from such a standpoint that we urge that one complete relief for the coast defenses is necessary in time of peace.

The comparison falls short in supposing that your new hands would be readily available. To see the truth of this, one only has to recall the experiences of 1898 when it was nearly two months after the declaration of war before the first volunteers were gotten upon the field of battle, with an obsolete weapon that made them quite as much of a nuisance as an aid. This was not the fault of the war department, nor of Congress. This condition was the result of public opinion. The Japanese torpedo boats struck the Russian Fleet in the harbor of Port Arthur before the declaration of war. There is ample time for a series of great national disasters between the declaration of war and the time when our first volunteers can be brought to the scene of action, especially in our more distant possessions.

Quoting from the Annual Report of the Chief of Artillery, for 1905, we find that "The force necessary for one complete manning detail for all of the elements of our coast defense, including the 169 officers and 4,970 enlisted men required for tor-

pedo defense and power plant and search-light service, is 1,750 officers and 41,833 enlisted men of which we have respectively 525 and 13,734." From this it appears that but little over one-fourth of the batteries now completed are in actual use. The remainder are laid up in the hands of caretakers.

In a letter to Congress on March 5, 1906, the President of United States said: "The necessity for a complete and adequate system of coast defense is greater today than twenty years ago, for the increased wealth of the country offers more tempting inducements to attack, and a hostile fleet can reach our coast in a much shorter period of time. The fact that we now have a navy does not in any wise diminish the importance of coast defenses; on the contrary the fact emphasizes their value and necessity for their construction."

"It is an accepted naval maxim that a navy can be used to strategic advantage only when acting on the offensive, and it can be free to so operate only after our coast defense is reasonably secure and so recognized by the country. It was due to the securely defended condition of the Japanese ports that the Japanese fleets were free to seek out and watch their proper objective—the Russian fleet—without fear of interruption or recall to guard its home ports against raids by the Vladivostok squadron. This, one of the most valuable lessons of the late war in the east, is worthy of serious consideration by our country, with its extreme coast line, its many harbors, and its many wealthy manufacturing coast cities. The security and protection of our interests require the completion of the defenses of our coast."

In the artilleryman we find a soldier who is a mechanical and electrical engineer. To his charge is entrusted probably as fine a system of coast defense as has ever been constructed, but even now when our home defenses are far from complete, and practically nothing has been done toward fortifying our insular possessions, and the Panama Canal, he must lay up in paint and cosmoline three-fourths of all this fine equipment, and do the best he can to keep the remaining fourths in operation with a force that is short-handed 30 per cent to 40 per cent. He is provided with excellent schools and means of training the experts which he requires, but, on completion of their enlistment, he sees all his work go for naught because they are underpaid, and the commercial world stands ready to invite them at twice their army pay.

Lieut. Col. Harrison, while acting Chief of Artillery, stated the situation in a nut-shell. "We are seeking a let-up on this present situation. It has gotten to the breaking point. The men will not re-enlist; many of them desert before their time expires, and the officers are becoming somewhat discouraged. The engineers have been adding to the plant from time to time, and turning over to us new fortifications and new works, new accessories, new power plants, new electrical installations, and new search-lights, until we are about ready to give way under the burden. We cannot properly meet the responsibility that is accumulating about our shoulders."

If this is the situation in peace, what will it be in war?

Y. M. C. A.

The association is to be specially fortunate this week in having outside speakers for the Thursday evening meeting as well as for next Sunday's evening meeting.

Mr. W. L. Rogers is to be with us Thursday evening. Mr. Rogers is known to most of us and will have something good for us next Thursday. Mr. A. T. Burns, of the Settlement Workers of Chicago, will be with us Sunday. An account of him and his work has been given in a previous issue. It is a rare opportunity to hear such a man as Mr. Burns, so let every one avail themselves of it.

The students conducted last Sunday's meeting in a very credible manner. What they said was very interesting and inspiring.

The association is planning to send delegates to the Y. M. C. A. convention to be held at Jackson on Feb. 20th. Several members of the faculty are planning on attending.

A FEAST.

The writer does not expect to see this article appear in "The RECORD," since he feels sure that the editor has been promptly supplied with several other more acceptable treatments of the same subject, for every one who had the writer's experience has undoubtedly been compelled to commit to paper the effusions of his pleasure. But should the editor, for novelty's sake, publish each separate version, what an interesting harmony in spirit, at least, if not in letter, would be presented!

There is an organization among our lady teachers mysteriously, but impressively, known as the "T. N. C." We would not be so rude as to guess at any of its secrets, nor yet would we fail to commend duly every member of this peculiar body.

It seems, however, that Miss Louise Waugh is at present a sort of high priestess and representative hostess among her sisters. Anyway through her invitation, eleven friends were present with her last Tuesday evening in the Women's Building at a dinner which was remarkable, not only for its various palatable courses and toothsome entries, but also for two other cleverly devised features.

The dinner was, indeed, throughout more than food. About every half hour an interesting telegram was received by some member of the company. We were thus favored with greetings from King Edward, Harry Thaw, B. R. Tillman, Emperor William and President Roosevelt. At the end of one of the courses we were served with something deeply wrapped in napkins. We opened our napkins at the same time and were soon all changed; paper masks, coiffures, and ruffs, all of different designs and colors, were adorning our merry expressions.

It was ten o'clock when the company left the dining room. We then entered the spacious parlor of the Women's Building and enjoyed for an hour—we fear to say longer!—the performances of the fire in a big wood-fed grate.

Long live Miss Waugh, the "T. N. C." and their friends!

The basket ball team plays Hope college at Holland next Saturday.



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**ABOUT THE CAMPUS.**

Mrs. Peppard is at her home ill with gripe.

Miss Luella Smith sp., entertained her sister over Sunday.

The State Oratorical contest will be held at Hillsdale on March 1.

Miss Gertrude Babcock is the proud possessor of a new Vose piano.

Instructor Hadden and Miss Wellman were on the sick list the past week.

Pres. Snyder was at Rochester on institute work Wednesday of last week.

Mrs. Ashley was the guest of her daughter Helen Ashley '07, over Sunday.

Preliminary debates on Saturday evening. See notice of debate under Club.

Miss Rubie Loomis '10, returned to college after several days illness at her home.

According to the Student Record the men students of Nevada University are soon to receive a course in camp cooking.

The program for the State Round-Up Farmers Institute is now ready for distribution.

Lost—A Waterman fountain pen. Finder please return to 54 Williams and receive a reward.

Mr. Frank Grover writes from Elvins, Mo., where he is just getting settled in his work.

The next Military Hop will be

held in the Armory on Friday evening, Feb. 15. One price to all.

Prof. Bogue continues to improve and without serious complications he will soon be among us again.

Instructor McCue spent Sunday, February 3, with Prof. and Mrs. U. P. Hedrick of Geneva, N. Y.

The State Board of Agriculture holds its next regular meeting in the Board Rooms at the College today.

The sophomores-freshmen meet will be held in the Armory to-night and great preparations are being made for same.

Student pay day for work done during the first half of the term will be on Wednesday instead of Thursday as per notice.

J. L. S. Kendrick, with '01, was a College visitor the past week. Mr. L. is a ceramic engineer and chemist at Hillside, Ariz.

Miss Eva Felker who was ill, received a visit from her mother one day last week and returned with her to her home at Bay City.

Eugene Robinson with '07, recently passed his examination for commissioned officer. He is a nephew of Maj. Vernou.

At the farmers' institute at Hastings this week the College will be represented by Dr. Blaisdell, Dr. Waterman, Prof. Jeffery and Miss Jones.

Sunday was a day of prayer for student organizations throughout the country. The Y. W. C. A. held

two special meetings in honor of the day.

Miss Jessie May Linton of the Western State Normal School, Kalamazoo, was the guest of her brother Oliver Linton '09 a few days the past week.

On Wednesday evening, after a week's absence home, whither she was called by the unexpected death of her grandmother, Miss Carney returned to college.

President Snyder was elected as president of M. A. C. eleven years ago yesterday. Two years ago on the 11th of February Wells Hall was destroyed by fire.

J. A. Poucher, '77, Register of Deeds in Lenawee Co., called on College friends one day the past week. He was attending the meeting of supervisors in the city.

On Saturday afternoon the freshmen won in a most exciting basket ball game over the "preps" by the score of 31 to 27. The first half ended 18 to 13 favor of the preps.

Ray Small, '07, is in Dr. Foster's hospital in the city suffering from an abscess in the ear. He had just begun work with the Lansing street railway when the trouble came upon him.

B. H. Roberts, '09, has been obliged to drop his college work for the time on account of his recent illness, and has returned to his home in Grand Rapids. He hopes to return in the spring.

M. E. Long, '11, who has been ill in the hospital for some time, has been taken by his parents to Ann

Arbor for further treatment. We shall be glad to welcome him back to M. A. C., as soon as his health permits.

The members of Club C were made happy on Wednesday by an informal dinner visit from Mrs. Snyder and a group of the professors with their wives. There was a general regret because President Snyder had to be away at an institute in Rochester.

Instructor L. J. Smith has taken his students (Gen. Agr. 2 year) to the various gasoline engine plants of the city during the past week where they were shown the construction of each style of engine and an opportunity given to learn something of how each was operated.

Hon. Henry Chamberlain died at his home in Three Oaks Saturday evening at the age of 82 years. Mr. Chamberlain was a member of the legislature in 1849, and a member of the State Board of Agriculture during the years '83-'89 and '91-'97. He was one of the oldest pioneers of Three Oaks.

A meeting of the citizens about the college was called on Saturday at 4:30 in the chapel to hear the report of the incorporation committee which has been at work nearly a year on the plans for incorporation. The proposed bill was read and discussed; the points receiving the most attention were the name for the new city, boundaries and benefits to be secured by incorporation. The meeting adjourned to meet again next Saturday at 4:30 in the chapel.



## ENGLISH LITERATURE.

At the chapel exercises last Tuesday Prof. Fletcher took for his theme "The Companionship of books" and stated that while a majority of the students are here for a technical education and must necessarily give a large share of their time to technical subjects, yet they ought not to neglect the opportunity to form the reading habit and to become acquainted with the masters of English literature.

He said in part,—I represent one of the technical departments of this college and it would be supposed that I should consider it more important for the student in agriculture or horticulture to spend all his spare time studying the literature of these subjects, rather than to use it in reading English classics. Yet I would urge that a large portion of the time be given to the latter subject.

I have repeatedly seen men who are well equipped in technical agriculture or horticulture, yet who had to be content with indifferent success because they lacked the ability to express themselves in a pleasing manner in speaking and in writing. I wish you would remember that you are here not merely for the training that will bring success in business but also for the power that comes only from wide reading and deep thinking, outside of the narrow limits of a technical profession, to the end that your lives may be of service in other ways besides in business. I would have the departments of English and history and all of the so-called "humanities" very strong in this college, because they contribute largely to success in a technical profession and because they are indispensable to success in a broader sense.

Besides increasing his usefulness in his profession and in the world at large, familiarity with English classics gives one the companionship of great men. He can meet Thoreau and Goethe and receive inspiration that comes from contact with them. There is much companionship in books. There is an author and a book or poem for every need—a Sidney Lanier for one who is homesick for the woods, and a chapter of Jerome's when one feels frivolous. Books are the expression of real men, and these men become in a very real sense our companions.

I hope that no student, no matter how narrowly specialized his work may be, will fail to learn here to love good reading and to make the acquaintance of the masters of English literature. Other friends may fail or pass away, but these are companions throughout life, and will be a constant comfort and inspiration. Take time enough from your professional studies to make these friendships.

## NATURE STUDY LEAGUE.

Those who attend the Nature Study Club meetings hear something good every time. Two weeks ago J. J. Myers led the meeting, which was devoted to animal intelligence. Many were the strange and interesting stories that were told of cats, dogs, cows and birds, illustrating animal intelligence. Among the strangest was that of the woman-hating horse. Last week Dr. Beal spoke to the club on tropical plants illustrating his lecture with many fine photographs. This week Mr. Gunson will speak to the club on orchids.

## LECTURES IN SPECIAL COURSE IN FRUIT GROWING.

Any students of the College, long or short course, and any visitors, are invited to attend any of the lectures in the special two weeks' course in fruit growing. So far as arranged the lectures are as follows. Practical work in grafting, pruning etc., is given in the afternoon. All the lectures are given in the Horticultural Laboratory:

**Monday, Feb. 11, 10-11:** Propagation of tree fruits.—Prof. Fletcher.  
11-12: Propagation of small fruits.—Mr. McCue.

**Tuesday, Feb. 12, 9-10:** The Structures and Habits of Injurious Insects.—Prof. Pettit.

10-11: Locating a fruit farm.—Prof. Fletcher.

11-12: Selecting Varieties.—Mr. McCue.

**Wednesday, Feb. 13, 9-10:** Varieties for Michigan.—Prof. Taft.

10-11: Selecting Nursery Stock.—Prof. Fletcher.

11-12: Planting the Orchard.—Mr. McCue.

**Thursday, Feb. 14, 9-10:** Horticultural Laws and Nursery Inspection.—Prof. Taft.

10-11: Tillage and its Substitutes.—Prof. Fletcher.

11-12: Methods of Tillage.—Mr. McCue.

**Friday, Feb. 15, 9-10:** Insects and Diseases of the Garden.—Prof. Pettit.

10-11: Pruning Tree Fruits.—Prof. Fletcher.

11-12: Pruning Small Fruits.—Mr. McCue.

**Monday, Feb. 18, 9-10:** How the Fruit Plant Feeds and Grows.—Director Smith.

10-11: Incidental Care of the orchard.—Prof. Fletcher.

11-12: Fertilizing and Cover Crops.—Mr. McCue.

**Tuesday, Feb. 19, 9-10:** Principles of Spraying.—Prof. Fletcher.

10-11: Injurious Insects of Tree Fruits.—Prof. Pettit.

11-12: The San Jose Scale.—Prof. Taft.

**Wednesday, Feb. 20, 9-10:** Diseases of the Peach.—Prof. Taft.

10-11: Diseases of the Plum, Cherry, and Small Fruits.—Prof. Fletcher.

11-12: Diseases of the Pear, Apple and Quince.—Mr. McCue.

**Thursday, Feb. 21, 9-10:** Insects Injurious to Small Fruits.—Prof. Pettit.

10-11: Spraying Methods, T. A. Farland.

11-12: Spraying Equipment.—Mr. McCue.

**Friday, Feb. 22, 9-10:** Harvesting and Packing Fruit.—Mr. McCue.

10-11: Storing and Marketing.—Prof. Fletcher.

Other special lectures by prominent fruit growers of the state have been arranged.

The final basket ball game in the class series will be played February 19.

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

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

**D. E. PARMELEE,** Dentist, 117½ Washington Ave. S., Lansing, Michigan. Citizens' Phone, office 275; residence, 261.

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