

The M. A. C. RECORD.

MICHIGAN AGRICULTURAL COLLEGE.

VOL. 18.

EAST LANSING, MICHIGAN, TUESDAY, JANUARY 28, 1913.

No. 18

HORT SHOW.

The Hort. Show given by the senior students of the Hort. Department was more than expression of the intelligence of those who so ably assisted in the preparation and the staging of the hugh affair. Every feature, from the opening speech by Pres. Pailthorpe to auctioning off the pies by Doctor Hutton, created the greatest interest among the large crowds that for two days thronged the pavilion which, through the kindness of Dean Shaw, was made the home of the Hort. Show. The space allowed for demonstration was crowded to the utmost, and more could have been used.

Mr. Geo. F. Leonard addressed the crowds on the successful fruit growing of the man who uses the spray, and the large operations of Mr. J. E. Merritt, of Manistee, who is setting out several acres of trees at the present time. Mr. William Davidson, of the landscape gardening department, also lectured on the beautifying of the home surroundings and the famous campus views of M. A. C. twenty years ago.

The grand demonstration of the show was the entering of twenty-five pies by students of the department of home economics. This exhibit of pies was viewed with the greatest amount of interest by the passing crowds, until gradually the interest reached the point where judging was demanded. To obtain the best results the services of Professor Hunt and her able assistant, Miss Robinson, were secured. The first prize was a five-dollar gold piece, and was awarded to Miss Ruth Brusselbaugh, a senior of Pine lake. The second prize was a barrel of apples, and was captured by Miss May Turney, a junior of Detroit. The third prize, a box of delicious choice apples, went to Miss Axie Daniels, a junior, of Okemos. The pies and other sundry fruits were auctioned by Dr. Hutton, of the veterinary department, and too much credit cannot be given this gentleman for his services in bantering the crowd until they parted with their money.

The apple display was the finest ever seen at the college. Fruits from twenty-three states were placed on the tables. The first day the decorations were azaleas, and the second day poinsettias. A very interesting display of crosses grown by the New York Agricultural Experiment Station was sent by C. B. Turbergen, '11, and M. T. Munn, '12. Other fine selections of fruits were sent from the following states: Arkansas, H. E. Truax, '12; Wisconsin, J. G. Moore, '03; Montana, F. H. McDermid, '12; Oregon, O. I. Gregg, '07, and V. R. Gardner, '05; British Columbia, Ed. Smith, '12; Ohio, Paul Thayer, '00; Delaware, C. A. McCue, '01; Rhode Island, F. J. Goodin, '11; Connecticut, A. T. Stevens, '93, and Professor Gulley, '68; and Virginia, D. F. Fisher, '12. In addition to these, many counties of Michigan were represented by excellent collections sent by other graduates. About 2000 people attended the show.

BASKET BALL.

M. A. C. Wins Both Games — M. A. C. 37; Rayls 12.

On Tuesday evening the college armory was packed by those who were anxious to witness the game with the strong Detroit team. The visitors were in good form and played a clean snappy game, but were unable to stop the team work of the home boys. Both sides had some hard luck in locating the baskets on the start, and few long shots were pulled off. It was an excellent game to watch, however, and the bleachers gave good substantial backing.

The first half ended 21 to 5. Just before the close of this half the Miller brothers replaced Gauthier and Vatz at the forward positions, but not before the former had secured four field baskets.

There was plenty of fouling on both sides, and eight of the visitors' twelve points were made on free throws.

For the home players, Gauthier led with four baskets, H. Miller secured 3, Chamberlain, Goss and Spencer each 2, and B. Miller and Vatz 1 each. Spencer secured 7 points on free throws.

Perrine, formerly of Iowa University, now on the teaching force at Ann Arbor, officiated, and his work was all that could be desired.

M. A. C. 48—ALMA 24.

The game with Alma on Wednesday evening proved even more exciting than that with Detroit. M. A. C. seemed a little over confident on the start and while the points were evenly distributed, the visitors were two points to the good at the close of the first half.

A heart to heart talk with the coach between halves had the desired effect and it was a determined bunch of players that started the second period. Alma was not allowed a single field basket, the remainder of her points being made on fouls. These were plenty, however, and helped the count considerably.

Several changes in the line up were made. The Millers going in at forwards, and Burt, "Dutch" Miller, Dodge and Reynolds each being given an opportunity to perform. M. A. C. secured 14 out of 17 attempts at free throws and Alma 10 out of 16.

The only game next week is with Hope at Holland on Thursday evening. This will doubtless be one of the best games of the season as the Holland boys are exceptionally strong in the winter sport. A return game will be played Feb. 21.

'09.

B. Jerome, of '09, has recently assumed the position of mechanical engineer with the Couple-Gear Freight Wheel Co., Grand Rapids, with residence at 1921 Horton Ave.

THE NEEDS OF THE COLLEGE

As Set Forth in President Snyder's Report.

(Continued from last week.)

VETERINARY BUILDING.

During the past ten or fifteen years the State Board has been requested frequently by the State Veterinary Society and by the live stock interests of the state to establish, as a part of the college, a school in veterinary science. These requests received official sanction by the act of the legislature authorizing the board to organize such a school. In response to these demands, the college in 1910 organized a division of veterinary science, and placed in charge a full corps of instructors. The old veterinary building was set apart for the use of this division, and a full course of study adopted. While the attendance to date has not been large, yet the success of the school is assured if adequate buildings and equipment can be provided. It is very evident that the students will be here when we are ready to take care of them. These new and important division needs two buildings, one of which, at a cost of thirty or forty thousand dollars, should be erected at the earliest possible date.

ARMORY.

In compliance with the Federal Land Grant Act of 1862, the college maintains a strong military department. All students physically able are required to take nearly three years of Military Science and tactics. The Armory, which has a floor space of 60 by 90 ft., is very inadequate. During the winter, drill exercises are limited to the freshmen and sub-freshmen, and, in addition to the armory, the stock pavilion in the agricultural building is used for this purpose. The report of the army officer delegated by the War Department annually to inspect our military department has for several years past criticised our Armory as being too small, and not suited for such a large department.

HORTICULTURAL BUILDING AND GREENHOUSES.

The horticultural interests of our State are very large, and becoming each year of greater importance. Our horticultural building and old greenhouses are entirely out of keeping with the great interests which they represent in the State. New greenhouses should be erected if possible at once, and a large, commodious horticultural building as soon as the funds are available.

BAKERY AND STORAGE ROOMS.

For several years past the need of a bakery, meat room and storage house in connection with our boarding clubs has been very much felt. About eight hundred students take their meals in our boarding clubs. The bread is bought in Lansing by the loaf and the meat by the piece, not even by the quar-

(Continued on page 4.)

ALUMNI

'69.

Dr. Chas. E. Bessey, head dean of the University of Nebraska, was the guest of honor at a dinner given in the banquet hall of the Lincoln hotel Jan. 22 by the members of "Organized Agriculture." The appended note to the program of toasts is all that is necessary to make clear the purpose of the gathering: "This banquet is for all friends of Dr. Bessey, in testimonial and appreciation of his distinguished service and usefulness to the educational and agricultural interests of Nebraska."

'77.

Dr. Bion J. Whelan, a prominent physician of Hillsdale, and a member of the present legislature, called at the college one day the past week to renew acquaintances.

'83.

O. C. Howe, formerly with Dyer, Jenison Barry Co., of Lansing is journal clerk of the lower house of the present legislature.

'00.

Arthur Lyons who represents his father's interests in the Hugh Lyons Co., Lansing, is at present taking a trip to Panama. Mr. Lyons was a mechanical student at M. A. C. in 1896-99.

'01.

Prof. Eustace met Roger Southwick, with '01, at Hart last week. He is managing a large farm 10 miles from that city, and he confessed to "making some money."

Born to Mr. and Mrs. Fred S. Curtis, 4130 Tobin Blvd., El Paso, Texas, a son, on Dec. 24. Mr. Curtis was with the class of '01, and a prominent football man in his day. He is at present traveling salesman with W. S. Taylor Co., of Cleveland, and has for his territory Mexico, when it's safe to make it.

'02.

O. L. Ayrs writes from Birmingham, Ala., as follows: "We have had a very mild winter here so far and conditions bid fair for an early spring. I hope to be putting out cabbage plants and planting potatoes in a week or two. We went to Tennessee for Christmas and Mrs. Ayrs and baby are still there. F. D. Stevens, '03, is in Washington just now but will be back next month. Matt Crosby, '02, calls in several times a year as does H. M. Connolly, '08, of Auburn. There is also an '09 man named Harrison located here. You may some day hear of a Birmingham Alumni Association, but its membership will necessarily be limited."

'07.

Announcement is received of the marriage on New Years day of Mr. Ira D. Angell, '07, and Miss Jessie L. McMahon, at Mosherville. The young people are at home after Feb. 1 at East Lansing, Mich.

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B. A. FAUNCE, MANAGING EDITOR

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TUESDAY, JANUARY 28, 1913.

MUSIC AND STORY.

The program of Music and Story, given by Mrs. Kate Marvin Kedzie and Mrs. Della Knight Boice in the lecture room of the chemical building Saturday evening, was enjoyed by nearly 250 guests. It was one of the most delightful occasions of the year, and the opportunity to hear Lansing's best entertainers was appreciated by all.

The program closed with "Little Stories of School Days," by Mrs. Boice, with Mrs. Kedzie at the piano, and were especially pleasing. The story of little Violet's joys and sorrows, study and play time, were charmingly told, and several quaint dances, among which was the minuet, were introduced.

At the close of the program Prof. Kedzie, in a few well chosen words, extended greeting, and called attention to the fact that as Jan. 28 marked the 50th anniversary of his father's appointment to the work at M. A. C., this was a particularly significant time to him. Although the laboratory had been in use some little time, this should be the formal opening, and the guests were cordially invited to visit every room of the department and get acquainted with the work carried on.

The professor stated that one of the objects of the recital was to bring college people together in order that those working for the same end may become better acquainted. He expressed the hope that there might be other opportunities whereby a closer relationship may be established at M. A. C.

Following is the program given entirely by Mrs. Kedsie and Mrs. Boice:

- Legends of Yosemite.....H. J. Stewart
- Great Chief of the Valley (invocation)
- Spirit of the Evil Wind (po-ho-no)
- The Lost Arrow
- Spirit of the Waters (Tis-sa-ack)
- Mrs. Boice, Mrs. Kedzie.
- Petite Suite.....Ole Olson
- Fantail
- Mazurka
- Serenade
- Caprice
- Papillons (Butterflies)
- Mrs. Kedzie,
- You Are Old, From
- Father William. Alice
- Speak Roughly to in
- Your Little Boy. Wonderland
- The Queen of Music
- Hearts. Liza Lehman
- Mrs. Boice, Mrs. Kedzie.
- Nocturne, F sharp, Op. 15, No. 2. Chopin
- Etude, A flat, Op. 25, No. 1.
- The Little Shepherd.
- Golliwogg's Cake Walk.....De Bussy
- Legende.....Paderewski
- Mrs. Kedzie.
- Little Stories of School Days,
- Maude Valerie White
- Mrs. Boice, Mrs. Kedzie.

JUNIOR AGRICULTURAL ASSOCIATION.

There has been published by the department of agricultural education Bulletin No. 10 on Junior Agricultural Association of Michigan for Boys and Girls. This bulletin is intended as a guide for the formation of boys' and girls' agricultural clubs. It is believed that this plan will furnish an opportunity for a new experience in home and school life.

The bulletin includes a complete constitution, and under general suggestions are given helpful hints as to the more detailed workings of the club or association.

Under "projects" are given complete working outline for corn growing, potato growing, strawberry plot work and poultry raising for boys, and tomato growing, canning, bread-making, etc., for girls.

The projects and texts, which were prepared by Mr. R. L. Nye, assistant in agricultural education, are complete in every detail, and can be followed by any boy or girl of average ability and intelligence. In each project is an outline report, which, when followed, can be easily recorded and thus enable both pupils and teacher to make comparisons which should be of immense value.

The co operation and support of county commissioners, teachers and parents is earnestly solicited, and in carrying out these projects those interested are urged to correspond freely with Prof. French.

The bulletin publishes several excellent cuts representative of the work in high schools, corn clubs, etc., and is a most interesting publication.

FARMERS' CLUB.

A large crowd was out to hear Senator Wiggins speak at the Farmers' Club Thursday evening. The senator spoke on "Intellectual and Economic Progress, and emphasized his points by analogies in natural Phenomenon, drawn from agricultural practice.

In part the senator said: "Old Mother Earth carries upon her bosom not only that which is the wealthiest, but that which is of the most vital concern to all living beings, i. e., the first foot of soil, which is the livest and most potential proposition that man's thought can be centered upon. It is here that her greatest agents for the good of humanity are centered, and he who shall master them and make two blades of grass grow where one grew before will be one of the world's greatest benefactors and its master servant. We are but beginning to realize that this first foot of soil is the great store house of continued life. The greatest intellects are devoting their attention to the problem of conserving it, and the world today is closely watching the farmer and food producer. This problem is ours; it is yours. It is of such vast importance to the world that it is today employing the most active and clearest intellects on this, the most pressing economic condition of our times. Nature is always progressive and in order to cope with her man must be progressive. It is only by intellectual and economic training of the youths of today and of future generations that this great problem can be solved."

THE DEBATING TEAMS.

Work is now in progress to prepare our debating teams for this year. If you feel an interest along this line, get in trim for the preliminaries, which were arranged for at the last meeting. Alma sends a team here this year, and the same day we send one to Ypsilanti, they in turn sending one to Alma, thus completing the triangular idea.

Each year a question is submitted by each college, and the topic selected by general vote. This year the question we offered was selected, Ypsilanti giving it first place in preference to their own. The question is: Resolved, "That trust regulation is preferable to trust dissolution."

Mr. Bittner, of the English department, is anxious to help all aspiring candidates to places on the teams. He will appreciate it if you hand in your name at once, and begin work on the material he has collected.

BAND CONCERT.

The band concert given in the armory Sunday afternoon was attended by a record-breaking crowd. Every available chair was taken, and many who came in late were obliged to stand during the entire program. In spite of the crowded condition, the very best of attention was given.

While the band has given many good programs, the one on Sunday was without question the best and it was appreciated. Prof. Clark and his players deserve great credit for their work, and words of praise were heard on every side.

The work of Miss Peck and Mr. Porter as soloists added greatly to the pleasure of the program. Here's to Director Clark and his musicians! May there be more music later on.

THE HOLY CITY.

On Feb. 9, in the armory, the M. A. C. choir, under the direction of Miss Freyhofer, will give the very pleasing cantata, "The Holy City," by Gaul. This is a most popular production, and has been given more often perhaps than any other in recent years.

The choir will be assisted by the Bemis Quartette, by Miss Esther Phillips, Mr. Killeen and Mr. Huston, as soloists. Miss MacGregor and Miss Bell also have a duet part.

The program will be given at three o'clock, and will take the place of the regulation band concert. This will be a treat that no one can afford to miss. More detailed notice will be given next week.

POULTRY WEEK.

Mr. Linton has been busy mailing out his programs, invitations and entry blanks for the big Poultry Week to be held in the Agricultural Building, Feb. 10-15.

For the program such men as Prof. Graham, of Ontario; I. A. Freeman, of Fenton; Franklane L. Sewell, artist for the American Poultry Association, and others have been secured and every line of poultry husbandry will be represented. Several practical poultrymen will speak of their personal experiences in poultry raising and the

week should prove of value to all.

In connection will be held the 5th annual poultry show in the pavilion of the agricultural building. No elaborate premiums nor expensive prizes will be offered, but the educational value should prove incentive enough to furnish stock. No entry fee will be charged and the birds will be judged by comparison. Plans are being made for the best show ever given and college people in general are cordially invited to visit same.

HORT. CLUB.

Mr. Gail T. Abbot, of the American Coal Products Co., New York City, gave an illustrated lecture Wednesday evening on "Sulphate of Ammonia, its Source, Production, and Use as a Fertilizer."

Mr. Abbot also spoke of its advantages over other forms of nitrogenous fertilizers. Many of the slides showed clearly the results of the application of this fertilizer to such crops as cabbage, wheat, tobacco, corn, barley, etc., compared with plots fertilized with potash, phosphoric acid, and those plots unfertilized.

This was a rare opportunity, and despite the fact that the basket ball game occurred on the same night, a large crowd was present.

George F. Bateson with the class of '13, is busy at drafting for a firm in Youngstown, Ohio.

Hon. H. R. Pattengill spoke to a large crowd of short course men Saturday evening, on "Made in America."

At the Foresters' meeting, Thursday evening, Mr. William Taussig will speak on the use of electricity in lumbering operations.

N. D. Simpson, '13, recently received announcement of his appointment as private secretary to Congressman Patrick Kelley.

Dr. James S. Williamson, of the Plymouth Congregational church in Lansing, will speak in chapel next Sunday morning at nine o'clock.

Mr. A. Eisenstein, sp. a, has also qualified for the local oration contest on Jan. 31, and will therefore be included in the list of candidates. Last week Messrs. Klinger and Margolis were mentioned as the only men to compete.

President Snyder appears on the program of the Shiawassee Co. Farmers' Institute today. He speaks on "The Need of an Agricultural Expert." Dr. Giltner also gives two addresses, one on "Farm Sanitation," the other on "Hog Cholera and Its Prevention."

We are in receipt of an excellent bulletin on Farm Poultry House Construction by H. L. Kempster, '09, assistant professor of poultry husbandry at Columbia, Mo. The bulletin includes every detail of poultry house construction and half tones and drawings are given, supplementing the reading matter.

The poultry department has received from Byron Danley, of St. Johns, a sample coop known as Danley's Sanitary Storage and Feeding Poultry Battery. It is really six coops in one, the whole being 27 inches wide, six ft. long and with three decks, 52 inches high. The batteries are mounted on wheels and are sanitary in every particular.

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ABOUT THE CAMPUS

Prof. Eustace was one of the
speakers at the Hesperia meeting,
Occana Co., last week.

An exceptionally fine set of *Irish
Literature* has recently been added
to the library. The set consists of
ten volumes.

A. B. Rogers, '04, writes that the
RECORD is all there is in Sioux City
to keep him in touch with the col-
lege. Mr. R. is a prominent veteri-
narian in his city.

Dr. C. H. Bamby, a missionary
to India for the Baptist congrega-
tion, gave an address in the chapel
Sunday morning, taking the place
of Rev. Wilson, who was to have
spoken.

The Hesperians gave their win-
ter term party in the Agricultural
Building on Saturday evening. Mr.
and Mrs. Gardner, Mr. and Mrs.
Church and Mrs. Minogue were
patrons.

A Night Off, or A Page From
Balzac will be the next production
of the College Dramatic Club.
This is a comedy in four acts by
Agustin Daley, and is sure to please.
The play will be given early in
March.

The total number of persons vis-
iting the People's church at East
Lansing for the week ending Jan.
18 was 2080. In the Bible school
more than 100 short course men
have reported each Sunday, and on
Tuesday evenings the men enjoy
basket ball and other games. The
church as a social center is certainly
fulfilling its mission in E. Lansing.

Thursday was evidently "Derby
Day" among seniors at the college.

Twelve classes have been organ-
ized in the study of the Chinese
revolution and a large enrollment is
expected in each.

Neil Van Horne, '11, asks to
have his RECORD address changed
from Hamilton, Mont., to Marquette,
Mich., where he expects to spend
the remainder of the winter.

Floyd W. Owen, '02, was a col-
lege visitor Saturday and Sunday,
this being his second trip to M. A.
C. since graduation. Mr. Owen is
a prominent business man of De-
troit.

Quite a large number of college
people took advantage of the oppor-
tunity to hear Maud Adams in
"Peter Pan," and all are loud in
their praise of the famous actress
and her work.

A new orchestra is being organ-
ized by Mr. Killeen, which will fur-
nish the music for both the mid-
winter concert and May Festival.
The players hold regular meetings
in the chapel on Monday evenings
at 7:45.

It may not be generally known
that the official photographer for
1913 Wolverine is a son of Mr. and
Mrs. Joseph E. Coulter of Grand
Rapids, both of whom were gradu-
ated from M. A. C. in 1882. Mr.
Coulter is considered one of the
leading photographers in Lansing,
and his excellent work has attracted
attention of people in other Michi-
gan cities as well.

Prof. Halligan gave an address
at Mason last week Friday on spray-
ing and spray material.

In the catalog of the Robert Es-
sex Incubator Co., of Buffalo, N.
Y., appears a cut of M. A. C.'s
practical farm poultry house.

The "Tie" House was the scene
of gaiety Saturday night when the
winter term party was given.
Prof. and Mrs. Halligan and Prof.
and Mrs. Huston were patrons.

The posters announcing the fruit
and flower show on Friday and
Saturday called forth much favor-
able comment. The designs were
many and varied, each suggesting
the idea of a visit to the show.

Prof. Anderson spent a portion
of last week at Morrisville, N. Y.,
where he lectured to dairy classes in
the short course being conducted by
J. R. Dice, '08. Mr. Dice is in
charge of the dairy work at the
above place, which is one of New
York's secondary schools of agricul-
ture.

Three pencil drawings in still life,
made by Prof. W. S. Holdsworth,
for 26 years connected with the de-
partment of drawing, have been
placed in the hall frames of the en-
gineering building. The drawings
are among Prof. Holdsworth's best
efforts along this line, and will be of
special interest to those who were
fortunate enough to know him. He
was graduated in '78; instructor in
drawing from '81 to '87; assistant
professor from '87 to '03, and full
professor until his death, in 1907.

Miss Mabel Nixon, formerly in
Pres. Snyder's office, is doing some
work for Mr. Bouyoncus in connec-
tion with a forthcoming bulletin.

Instructor E. C. Baker spent Sat-
urday with his foundry class, in-
specting the Lansing foundries.
One section made the trip in the
forenoon and the other after dinner.

Robert Kedzie Coffron, of North
Branch, is one of the members of
the poultry class this winter. Mr.
Coffron is the son of Dr. W. H.
Coffron of the class of '82 who
died at Grindstone City in 1905.

A son, Robert William, was born
to Mr. and Mrs. S. C. Hadden on
Jan. 16. Mr. Hadden, who was
formerly assistant professor of civil
engineering at M. A. C., is now as-
sociate editor of *Engineering and
Contracting*, Chicago.

Some very interesting instruments
have recently been added to the ex-
hibition case of the drawing depart-
ment. One of these is a sample of
the latest drawing instrument in
use. It is known as an "ellipso-
graph." It may be used in all kinds
of ellipse and circle work, and is
certainly a material addition to the
equipment of the draftsman. In
addition to the above, and by way
of contrast, there has been added to
this case a set of perhaps one of the
oldest drawing instruments, prob-
ably of English type, which is also
very interesting. This set is the
gift of E. G. Peattie, now of Chi-
cago, who was a member of the
class of '03.

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THE NEEDS OF THE COLLEGE

(Continued from page 1.)

ter. On account of a lack of storage room it is not possible to buy flour or potatoes in car load lots. The cost of board to students could be reduced considerably by the erection of a small building at a cost not to exceed eight thousand dollars.

We should have additional dormitories, both for young men and young women. If College Hall is to remain it should be rebuilt, with the exception of the walls. Of course these buildings cannot all come at once, but it is certainly not an extravagant statement to say that the college should have a half million dollars to put into new buildings within the next three or four years.

OTHER NEEDS.

Other needs are also urgent. The call for assistance is coming from all parts of the state. The demand for extension work in agriculture is unprecedented. If the college is to maintain the leadership in agricultural development in Michigan it must be able with men and means to meet the demands made upon it by the tillers of the soil. If it falls short in this it does not fulfill its mission.

Even of greater importance than new buildings is the necessity to respond to this call from the farmers. There has never been a time in the history of the college when so much was demanded of it as at the present moment. The type of education which it offers has become very popular. Its graduates are in demand. The eyes of the great industrial classes are turned this way, confidently expecting that we will come to their assistance.

It is scarcely necessary to say that to meet these legitimate demands will necessitate a large increase in the revenue of the college.

Earl P. Robinson, '07, of Decatur, Ind., was a college visitor for a couple of days the past week.

Mrs. E. O. Nelson, of Champaign, Ill., is the guest of her sister, Mrs. J. J. Myers, Howard Terrace.

Prof. Babcock's many friends will be glad to know that he was able to visit the Hort. show in the agricultural building Saturday.

In the program of the musicale mentioned in the last RECORD, the facts became somewhat mixed, we are sorry to say. While the recital was under the auspices of the Woman's Club, of East Lansing, it was given by Miss Freyhofer, Miss Mable Leffler, instructor in music, was the accompanist.

On Tuesday evening of last week Dean Shaw spoke on the subject of Experiment Station Administration. He gave a review of the agricultural industries of Michigan and pointed out how the efforts of the experiment station should be confined to the solution of problems most pressing in these industries.

FARMERS' INSTITUTES.

COUNTY

Mecosta Co., Big Rapids, Feb. 3-4; Newaygo Co., Fremont, Feb. 4-5; Muskegon Co., Muskegon, Feb. 5-6; Oceana Co., Shelby, Feb. 6-7; Barry Co., Hastings, Feb. 7-8; Berrien Co., Benton Harbor, Feb. 10-11; Cass Co., Cassopolis, Feb. 10-11; Kalamazoo Co., Vicksburg, Feb. 11-12; St. Joseph Co., Sturgis, Feb. 12-13; Jackson Co., Grass Lake, Feb. 12-13; Branch Co., Coldwater, Feb. 13-14; Hillsdale Co., Litchfield, Feb. 14-15; Calhoun Co., Marshall, Feb. 14-15; Monroe Co., Dundee, Feb. 17-18; Livingston Co., Howell, Feb. 18-19; Lenawee Co., Adrian, Feb. 19-20; Wayne Co., Romulus, Feb. 19-20; Oakland Co., Pontiac, Feb. 20-21; Washtenaw Co., Saline, Feb. 20-21; Kent Co., Grand Rapids, Feb. 20-21; Saginaw Co., Saginaw, Feb. 20-21; Macomb Co., Washington, Feb. 20-21.

ONE DAY.

Kalamazoo Co., Kalamazoo, Jan. 30; Oshtemo, 31; Damon Church, Feb. 1; Cooper, 3; Portage, 4; Schoolcraft, 5; Comstock, 6; Climax, 7.

Kent Co., Cedar Springs, Feb. 3; Sand Lake, 4; Grattan, 5; Paris Twp., 6; Carlisle, 7; Kinney, 10; Alton, 11; Ada, 12; Caledonia, 15.

Calhoun Co., Penfield, Feb. 3; E. Leroy, 4; Rice Creek, 5; Stanley, 6; Ceresco, 7; Eckford, 8.

Oakland Co., Holly, Feb. 10; Clarkston, 11; Ortonville, 12; Troy, 13; Walled Lake, 14.

Wayne Co., Plymouth, Feb. 10; Redford, 11; Deerborn, 12; Canton, 13; West Sumpter, 14; Willow, 15; Eureka, 17; Flat Rock, 18.

Washtenaw Co., Salem, Feb. 10; Superior, 11; Ypsilanti, 12; Willis, 13; Webster, 14; Sylvan Twp., 15; Dexter Twp., 17.

Monroe Co., Scofield, Feb. 13; Erie, 14; Azalia, 15.

Sanilac Co., Shabbona, Feb. 18; Argyle, 19.

Newaygo Co., Hawkins, Feb. 20.

Livingston Co., Gregory, Jan. 30; Deerfield, 31; Tyrone, Feb. 1.

Dr. C. E. Marshall, now of Amherst, Mass., sails Feb. 27, for Europe, where he will spend several months in research and study. Dr. Marshall's M. A. C. friends will be glad to know that he has so far recovered from his recent illness as to make the trip.

'06.

E. N. Bates, of Penn. State, has been carrying on some interesting investigations on the use of kerosene in gasoline engines. He is at present giving a lecture course to senior agricultural students on boilers and engines, their care and operation.

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