

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 9.

LANSING, MICHIGAN, TUESDAY, DEC. 15, 1903.

No. 13



The above cut shows the class in stock judging together with the horses owned by Mr. A. A. Palmer, of Orleans. Mr. Palmer is engaged in the breeding of Percherons and sent five fine specimens to M. A. C. These animals were here an entire week, thus giving the students an excellent opportunity for a critical examination. Mr. F. J. Noble, of Mulliken, sent two three-year-old fillies of the Percheron type. Mr. Hurd, of Lansing, brought a large,

well proportioned Clydesdale, and Mr. Kilbourne a good roadster of the Wilkes strain. Dr. Waterman had charge of the judging and two weeks were spent in the work. This is the first time thoroughbred horses have been brought in from a distance. Heretofore the grade horses of the farm were used exclusively. The departure has proved not only interesting, but also very valuable. The owners brought in their horses free of charge and the

class hereby expresses its gratitude. All the animals shown were prize winners and the different breeders have certainly been fortunate in the selection of their animals. The results have been very satisfactory to the department, suggestive to the owners and invaluable to the students. It might be interesting to note that the largest Percheron and the Clydesdale each weighed over 2100 pounds.

HORT. CLUB.

At the last meeting Mr. F. W. Robinson gave a talk on soil chemistry and soil physics. He showed, among other things, what a very dilute nutritive solution will grow a healthy plant, and how a slight change in the strength of this solution will cause a marked change in the growth of the plant. Mr. Gunson then gave an interesting and instructive talk on citrus fruits. He illustrated his talk with fruits received from Mr. F. C. Reimer, '03, of Florida. Mr. O. L. Ayrs, '02, presented the club with a gavel he got while visiting the old Mount Vernon estate.

The next meeting will be held on the first Wednesday evening of next term.

Y. M. C. A.

The Thursday evening prayer meeting was led by E. A. Seelye. Theme, "God's unfailing promises." The discussions on the subject were interesting and the meeting was well attended.

Chapel services Sunday morning

were conducted by Rev. R. C. Dodds of Lansing. Text: 2 Cor. 13: 11, "Be perfect." The sermon was very interesting and all present were well repaid for attending.

Mr. Howard Bement of Lansing, addressed the Sunday evening meeting of the Y. W. and Y. M. C. A. His theme was, "Purpose and accomplishment, or how to achieve true happiness." Mr. Bement established the proposition that happiness is the one great aim of all persons and peoples of all time from the first to last and that the reason why the vast majority fail to achieve happiness is that they are looking in the wrong place for it. Mr. Bement showed that Christ gave the secret of happiness in the first 16 verses of Jno. 13, ending with the 17th verse, "If ye know these things, happy are ye if ye do them." The discourse was excellent and the services were well attended.

The freshmen in botany are studying the subject of seeds and fruits. Those of economic importance receive special attention. The entire term is spent in this work which is largely laboratory in its nature.

ALUMNI.

'71.

Byron D. Halsted, professor of botany and horticulture, Rutgers College, was one of the examiners in botany appointed by the College Entrance Examination Board. This board gives examinations for entrance to different colleges and universities in the United States. Its object is to secure thoroughness and also uniformity of educational standards. Examinations were given at 134 points, of which 128 were in the United States, five in Europe and one in South America. 1620 candidates were examined, of which 264 intended to enter Cornell, 654 Columbia, 169 Vassar, 24 Yale, 99 Massachusetts Institute of Technology, 28 Princeton, and 4 University of Michigan.

With '73.

Rev. Louis Delamarter, D. D., presiding elder of the Lansing district of the M. E. church, called at M. A. C. last week. Dr. Delamarter chopped in No. 12 while a student and saw much of pioneer life at M. A. C. He has been in the ministry for over 20 years and has occupied pulpits in Muskegon, Kalamazoo and Eaton Rapids. He and his family now reside in Lansing. His oldest son studied music in Paris last year and is now organist in a Congregational church in Chicago. His daughter is a senior in the Baltimore Women's College. Dr. Delamarter has been elected to the General Conference which meets in Los Angeles in 1904.

'82.

L. H. Bailey is editor of *Country Life in America*, a monthly journal of great interest. The December number is especially attractive. It abounds with superb illustrations. The article on Winter Flowers by J. N. Gerard deserves special consideration and also Christmas Greens and Flowers by Thomas McAdam. The half-tones of smilax, bitter-sweet, pine branch with cones, poinsettia, lilac, galax and the American Beauty rose are exceedingly beautiful. Christmas in the Pine Woods, Skeeing and Christmas Dinner for 300,000 Guests by the Salvation Army are also interesting articles. We have never seen a Christmas magazine that equals this one for beauty. The publishers are Doubleday, Page and Company, New York.

'84.

John J. Breck visited M. A. C. last Wednesday. He is a successful attorney at Jackson, Mich.

'02.

O. L. Ayrs, of the Soils Department of the U. S. Department of Agriculture, is visiting his parents in Collegeville. Mr. Ayrs has been working in Delaware, Long Island, and Central New York. He is to report in Jackson, Mississippi, Jan. 1st. He enjoys his work very much.

The program for the M. A. C. Farmers' Club for Dec. 16 is a report from the delegates who attended the International Live Stock Show at Chicago, and those who attended the meetings of the State Association of Farmers' Clubs held at Lansing Dec. 9-10. As this will be the regular meeting for the election of officers let all those who are interested in club work attend, and also those who wish to know the ideas of the best agriculturalists of the state in regard to needed reforms, and of the stock breeders of the U. S. in respect to live stock.

Among the speakers from abroad for the Round-up Institute are D. J. Crosby, '93, from the Department of Agriculture, who will give his illustrated lecture on Nature Study and School Gardens. Major H. E. Alvord will speak on dairy lines. N. A. Clapp, the newly elected president of the Farmers' Clubs will be a speaker. One fare ticket will be on sale Feb. 22, 23, and 24, return to and including the 27. In the Upper Peninsula, tickets will be sold on the 22nd and 23rd, good to return March 1.

THE M. A. C. RECORD.

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EDITORS.

G. MASSELINK, MANAGING EDITOR.

ASSOCIATE EDITORS:

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TUESDAY, DEC. 15, 1903.

ALUMNI.

'78.

W. K. Prudden is a manufacturer of automobile wheels in Lansing. His company made 75 per cent of all wheels used in the United States during the season of 1903. He is also agent for Oldsmobiles for Central Michigan. He made the following closing remarks at an entertainment given by the Business Men's Association to the citizens of Lansing Nov. 11, 1903. The peroration is a fine eulogy and at the same time a literary gem.

Mr. Toastmaster.—I make no apology for my peroration. It is fitting that we pause a moment in these festivities and recall in memory one whom we all miss tonight. A few short months ago death claimed one of our best citizens. He stood before you at a banquet table in apparent health and vigor. Without a moment's warning came the final summons. What merit mark the Recording Angel has set opposite the name of G. Willis Bement we know not, but it must be among the high marks of Life's graduates.

It would be a pleasant duty to tell you of his life, but you know it as well as I. He was honored by his state and city, and honored both in the discharge of his duties. He was a man of purpose, a man of courage, and a man who never faltered in his duty. Kind, considerate and just; a friend once, a friend ever. His private life was exemplary, his home life ideal. Who will forget that bright smile, twinkling eye and cordial hand shake—all echoing from the heart. We shall remember him for his unselfish devotion to duty, for his strength of character, and for the qualities of mind and heart that made him a true representative American citizen.

Until the Eternal Morn he sleeps the sleep of the valiant soldier. The bright sun he loved so well shines in all its glory upon his tomb. The moon, penetrating the tinted clouds, silvers dew drops upon the flowers about his grave; and the gentle autumn breeze makes sweet music as it whispers to the white marble sentinels the beautiful story of a Life's work well done.

'99.

S. L. Ingerson, who has been assistant chemist at the Mt. Clemens Sugar Factory, visited M. A. C. last Saturday while on his way home. The factory sliced about 14,000 tons of beets this season, running only 27 days. Beets seem to be getting unpopular in the vicinity of Mr. Clemens and it is doubtful whether the factory paid current expenses.

Wm. D. Hurd is professor of Agriculture in the University of Maine. He was in Rhode Island last year. M. A. C. now has two men at this University. Wm. Munson, '88, is there as professor of horticulture.

'02.

R. L. Cork is in the employ of the Enterprise Boiler Co., Youngstown, Ohio. He is engaged in structural steel and plate work and writes that the descriptive geometry studied at M. A. C. is proving of great value to him. His address is 607 Hayes Avenue.

E. R. Bennett, assistant horticulturist of the experiment station and in charge of the military department at the Connecticut Agricultural College, Storrs, Connecticut, visited here last week. He was called to Michigan on account of his mother's death. Affairs at Storrs are running very smoothly. Prof. A. G. Gulley, '68, and Director L. A. Clinton, '89, and their respective families are well. Crops on the college farm have been larger than usual and the experiments have been uniformly successful.

'03.

E. S. DeGarmo is receiving teller of the American Savings Bank, of Toledo, Ohio.

GENERAL TEACHERS' MEETING.

The second meeting of the term was held last Tuesday in the class room of the Bacteriological laboratory. Instructor Edwards read an article giving the scope and purposes of the course. He said in part.—“The aim of the course in bacteriology as given in this laboratory is to have the student first gain a knowledge of the nature of micro-organisms and the conditions necessary for their growth and development; then to show the changes which they are capable of producing in various substances, and finally to apply the knowledge already gained in discovering for himself the real significance of these changes and the intimate relationship of micro-organisms and their action to his own existence and surroundings. With these aims in view, the course is divided into three parts—morphologic and cultural; physiologic; applied bacteriology.

As he advances into the work, he begins to realize how these micro-organisms may perform functional changes of considerable importance to mankind. He notes that in order to cultivate certain organisms he must furnish them with proper respiratory gases, feed them with particular kinds of food and maintain them at temperatures sometimes ranging within the limits of two degrees.

Several phases of the subject were taken up in their relation to the dairy, the farm, the home, disinfection, fermentation, etc. His final sentence was, “We strive to prepare

students for life, not for bacteriologists.”

Dr. Marshall then gave a general survey of the work, College and station, and dwelt particularly on methods. The following are extracts from his address: “Some predominating idea always directs the individual who has under his charge laboratory classes: the one will make it his aim to simplify matters that the student may glide along smoothly and at the same time pick up much needed information which in the future will afford him great satisfaction; the other will have studied pedagogy so severely that he will feel it is his duty to confine himself to inductive or some other methods; and still again instructors will be found whose only aim, regardless of methods, is to create a spirit of investigation.

Some consider the inductive method the only one for laboratory classes. Those who are acquainted with normal methods and have seen how a subject is unfolded before a class of infants may fully appreciate the significance of induction. In an hour's questioning before a class of infants, there might possibly be developed that a cat has four legs, one tail and two eyes, and it is doubtful whether a class of adults would do much better. As long as we have so little time for carrying on our studies, it seems pitiable that we should be obliged to spend days over trying to see something we cannot see, because we haven't seen it, when by turning to some authority or by a hint from the instructor the matter would be made entirely plain.

The place for induction, therefore, belongs to research work, after the student has his bearings in a subject and he really becomes an advanced student in any subject before he may adhere to induction.”

The second part of Dr. Marshall's address was taken up with the Experiment Station. Its work was considered along three lines. First—The experimentation which is fundamental to the discovery of new truths. Second—It falls upon the station to make tests and trials of plants or other things for the benefit of farmers. Third—To scatter information. At the present time bulletins are sent to about 40,000.

An interesting discussion followed and showed that germs are respected even by members of the faculty. Dr. Marshall and his assistants, including Miss Armstrong, then gave a practical demonstration of things related to the department. Pasteurized ice cream and fumigated wafers

were served in the general laboratory. All enjoyed the evening and pronounced it a success.

Governor Bliss has given three gold medals in the educational butter scoring contest. One goes to Mrs. James Harris, Traverse City, who had the highest average score in the dairy class, 90.2. The second and third medals go to Helmer Rabild, Chesterfield, and L. J. Heaton, Dorr, who tied for first place in the creamery class with a score of 93.3. There were 8 in the dairy class and 50 in the creamery class. The interest was good throughout the test. Another test will be conducted next year. Governor Bliss has taken a great deal of interest in this contest. A special diploma was awarded to J. B. Gilbert, who received an average score of 92.3 in the creamery class. Messrs. Rabild and Gilbert received their training in the special courses at M. A. C.

The Sophomores in agriculture under Prof. Jeffery are engaged in very practical work. Each student is drawing an original plan for a dairy barn that will hold thirty dairy cows with the accompanying young stock, and contain all necessary fodder. Some very interesting plans have been made. One student has made a very fine drawing of a circular barn some 60 feet in diameter with a silo in the center. After the designs have been made, sections are constructed which contain all the details of the structure. Lumber is used for these sections on a scale of three-fourths of an inch to a foot and each student makes out a bill of all material needed. This is the first time such work has been done and unusual interest is shown by all.

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ABOUT THE CAMPUS.

The mechanical department contemplates putting in a complete telephone system for the use of the different shops.

The class room in bacteriology has a fine portrait of Pasteur. Dr. Marshall secured this in Paris last summer. The artist is Desmonlin.

The farm department has purchased a Victoria sow from M. T. Storey of Lowell. This sow has won first prize at the Michigan fairs this fall.

The botanic garden has gone into winter quarters. Delicate plants have been mulched, others bound up and covered in various ways till April 15, 1904.

The seniors in bacteriology are now working on unknowns. Each student is supplied with a mixture of organisms which are to be isolated and identified.

The class in European history is studying nineteenth century restorations. Maps are drawn of all important situations such as the development of the German empire.

The mechanical department is anticipating the purchase of two new lathes for use in the shops. They are much needed on account of the large increase in the upper classmen.

The horticultural laboratory is having a new cement floor put in the basement, and one room is being fitted up for experiments in the preparation of spraying material.

J. A. Fraser, '03, has changed his location recently and is now doing structural drafting for Contractor

Schlenter, Chicago. Mr. Fraser's address is 542 Marquette B'ld 204 Dearborn St., Chicago.

The Phi Delta Literary Society gave their 2nd fall term party on Friday evening, Dec. 4th. The rooms were very tastily decorated. Prof. and Mrs. U. P. Hedrick acted as chaperones.

A new boiler has arrived at the engine house. It is a modern type of 150 horse power. Another one is expected in a short time. They will be equipped with the Jones underfeed stokers and will form a fine addition to the boilers now in use.

The seniors in veterinary science are engaged in the dissection of horses. Two animals have been secured and the class has been divided into two sections. The work will continue for three weeks.

E. C. Crawford has constructed an indicator rig which is quite unique in its method of operation. It reduces the length but maintains the speed and direction. It is used by the class in experimental laboratory work in the testing of engines.

The horticultural department is removing some of the superfluous trees on the campus. In some places the trees are rather crowded, others are out of place or obstruct views. Two Norway spruces near Dr. Beal's house were 45 years old. They were planted some 40 years ago.

The department of physics has recently purchased two 11000 ohms resistance boxes, an electric motor, a

fluoroscope, 2 X-ray tubes, a blast lamp, one rheostat and several other articles for the laboratory. Dynamos and electric motors will be rented for the course in electrical engineering this winter.

J. W. Nelson and H. C. Hogenson, special students in horticulture at M. A. C. last year, are now in the employ of the Bureau of Soils. They spent the summer in Maryland examining soils as to physical and chemical properties. They will spend the winter in Washington arranging data and getting ready for next year's work.

The class in general chemistry is determining the atomic weight of sodium. 22.9 has been the best result so far. The results vary from 21 to 24, and several have secured 23.2. Since 23 is the exact weight, these results are very good. Corrections are made for pressure and temperature. 12.3 has been obtained for carbon.

Mrs. Vedder, Mrs. Barrows and Mrs. U. P. Hedrick entertained the ladies of the faculty and friends on Wednesday afternoon. The rooms were artistically decorated and a very pleasant afternoon was spent. On Thursday evening the hosts entertained a party at dinner. Cards were the attraction after dinner and all had an enjoyable time.

The county normals are offering optional courses in elementary agriculture. If the right teacher can be secured, much good may result. The reason why such courses usually fail and why work along this line in

the public schools is of no real account is because those who attempt to teach agriculture in such schools know absolutely nothing about it as a science.

M. A. C. congratulates the Nebraska Agricultural College in its success at the Live Stock Show. The college took first prize on a steer. E. A. Burnett, '87, Howard Smith, '95 and W. P. Snyder, '03, have charge of the agricultural department. While M. A. C. had no prize steer this year, she feels proud of the record made by Nebraska, especially because her graduates have charge of that work.

The State Board met Dec. 9, 10:30 a. m. Secretary Brown was authorized to advertise for bids for a central boiler house. Two lathes were ordered purchased for the mechanical department. H. J. Eustace, '01, was offered the position of instructor in horticulture and assistant horticulturist. Prof. W. O. Hedrick was allowed an assistant for the remainder of the year.

Stewards and directors for the clubs for the next term.

Club A, Steward, S. Armstrong, Director, D. A. Gurey.

Club B, Steward, O Burke, Director, H. T. Ross.

Club D, Steward, A. J. Anderson, Director, F. Johnston.

Club E, Steward, A. J. Carpenter, Director, G. Nichols.

Club G, Steward, C. I. Auten, Director, C. Reed.

Club H, Steward, J. Schaefer, Director, E. A. Seelye.

DEBATING CLASS.

The first series of debates to select the candidates for the M. A. C.—Ypsilanti debate was held on Saturday evening, Dec. 5. The question discussed was "Resolved, That the limitations placed on suffrage in the state of Mississippi by the state constitution of 1890 and in effect Jan. 1, 1892, are legally and morally justifiable.

DIVISION A.

Affirmative: S. E. Johnson, W. F. Millar, G. C. Morbeck. Negative: Miss B. K. Paddock, Miss M. Barrows, Miss Z. Benton.

The affirmative won the debate and the following were selected according to rank: Millar first, Johnson second and Morbeck third.

DIVISION B.

Affirmative: A. J. Anderson, G. E. Martin, R. C. Potts. Negative: V. R. Gardner, P. H. Wessells, H. H. Hogue.

The judges decided in favor of the affirmative and gave Anderson first place, Gardner second and Wessells third.

DIVISION C.

Affirmative: H. S. Severance, O. B. Burrell, H. C. Oven. Negative: A. A. Fisk, L. D. Bushnell, C. D. Sterling.

The negative side won this debate by one point and the debaters selected were in order of proficiency, Severance, Fisk, Sterling.

DIVISION D.

Affirmative: H. N. Hornbeck, E. H. Adams, E. N. Bates. Negative: R. D. Maltby, H. J. Smith, S. Lilly.

The affirmative was again victorious and the debaters were ranked as follows: Bates first, Lilly second and Smith third.

The debates were good in each division and much interest was manifested. Next term another series will take place to determine the next six men. Dr. Edwards has worked out an excellent plan and has spent much time and effort to make debating a success. The class meets every Thursday, is well attended and is full of life and interest.

At the Debating Club Dec. 10, the question, "Resolved, That labor unions are detrimental to the welfare of the general public," was debated by Messrs. McWethy and Dorsey affirmative, and Wright and Wermuth, negative. Many excellent points were developed by both sides. The decision of the judges was for the affirmative. The following officers were elected for next term: President, L. McWethy; vice president, P. Wessels; secretary and treasurer, C. D. Sterling; corresponding secretary, R. C. Potts. Literary committee: Dr. Edwards, B. Wermuth, and R. J. Baldwin.

On Saturday evening Dec. 12, The Union Literary Society entertained their lady friends at an informal ten o'clock. The entertainment which was of the ludicrous, opened with a program of "The last day exercises of a country school." During the recess, each enjoyed a repast from the dinner pails. Chats around a campfire, visits to ghosts at home, peep-sight conundrums and various vaudeville performances afforded other amusement which was highly enjoyable to all. Mesdames Landon and Stevens chaperoned the party.

SENIOR DINNERS.

The first of the senior dinners was given Monday evening Dec. 1 at five o'clock by Miss Dodge. The guests were Miss Carpenter, Miss Avery, and Mrs. Dodge. The table decorations were yellow roses and asparagus ferns. The place cards were decorated in holly and mistletoe. Miss Cordley was waitress. Menu as follows:

- Oyster Cocktails
- Brown Bread
- Bouillon
- Rolls
- Fried Chicken
- Crab Apple Jelly
- Rice Croquettes—Potato
- Roses
- Cucumber Salad
- Bread Sticks
- Pineapple Bavarian Cream
- Cake
- Coffee
- Cheese Straws

Miss Annie Robinson was hostess at the dinner given Dec. 2. Her guests were Mrs. Robinson and Mr. and Mrs. Harry S. Reed of Lansing. Miss Ida Robinson was waitress.

MENU.

- Green Pea Soup
- Duchess Crusts
- Stuffed Veal Heart
- Horseradish Sauce
- Potatoes Baked In Half Shell.
- Turnip Balls
- Jelly
- Celery and Cabbage Salad
- Bread Sticks
- Apple Fritters
- Caramel Sauce
- Orange Sherbet
- Lady Fingers
- Coffee

Dec. 3d Miss Eichbaum entertained Dr. and Mrs. Marshall and Miss Carpenter at a five o'clock dinner. Waitress was Miss Katherine Slaght. Decorations, roses and carnations.

MENU.

- Cream of Celery Soup—CROUTONS
- Fish Souffle
- Brown Bread Sandwiches
- Broiled Steak—Maitre d'Hotel Butter
- Potatoes Creamed
- Parsnip Fritters
- Parker House Rolls
- Tomato Salad
- Cheese Straws
- Maple Parfait
- Angel Food Cake
- Cafe Noir

On Thursday Miss Bon Bennett entertained Mrs. Bennett and Miss Holt, of Lansing, and Miss Wellman. The table decorations were white and yellow chrysanthemums. Miss Skeels was waitress.

MENU.

- Fruit Cocktails
- Clam Soup
- Smothered Chicken
- Toast Strips
- Stuffed Potatoes—Gravy
- Turnips
- Lemon Sherbet
- Banana Salad
- Salad Rolls
- Prune Whip
- Coffee
- Cheese Wafers

All of these dinners were planned by the hostess and the work was carried out by the classes in Senior Cookery. The cost of each dinner was limited to one dollar. Prof. Atwater's Standard dietary was used as a guide and the percent of food constituents furnished each guest was estimated to be .103 of Protein, .103 Fat, .417 Carbohydrates and 1390 Calories which is seven-fifteenth of the daily ration for a man with light exercise.

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