

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 17.

EAST LANSING, MICHIGAN, TUESDAY, DECEMBER 12, 1911.

No. 12

## SHORT COURSES IN AGRICULTURE.

For the Benefit of Michigan's Busy Farmers.

The short winter courses at M. A. C. will open on January 2, 1912, and it is hoped to have a class of 500 during the six or eight weeks. The courses are offered during the winter, when it is most convenient for the farmer to leave home, and each year has witnessed an increased number in this work.

The courses offered are as follows:

General agriculture, Jan. 2 to Feb. 24.

Creamery management, 1st year, Jan. 2 to Feb. 24.

Creamery management, 2nd year, Jan. 2 to Feb. 10.

Poultry, Jan. 2 to Feb. 24.

Fruit Growing, Jan. 2 to Feb. 16.

Cheesemaking, Jan. 2 to Jan. 27.

This is an opportunity which no young man interested in agriculture can afford to miss. The work of each course is made intensely practical, and those in attendance are given the best the college affords in the way of instruction and equipment.

The farm and farm buildings furnish laboratory practice of the most practical kind. The library, with its 32,000 volumes, is available for the use of the short course men, and the coming together of several hundred representative farmers and dairymen is, in itself, an important feature which always tends to more progressive methods and a greater interest in one's calling.

The Live Stock Breeders' Association meets at the college during the third week in January, and at the close of the eight weeks' courses the Round-Up Institute. This will give those in attendance an opportunity to attend both, and to hear the addresses and discussions of specialists in all lines of agricultural work.

Lectures, entertainments, and musical programs will no doubt be made a feature as heretofore, and, taken altogether the winter session is to be made as pleasant and profitable as it is possible to make it for our short course men.

## AGRICULTURAL JOURNALISM.

The course in agricultural journalism, given as an elective to juniors and seniors, has been changed from the spring term to the winter term, at which time it will hereafter be given. Students who are interested in taking this course should see the head of the English department concerning the matter at once, as no students are permitted to classify for the course without first having secured permission to take it. Only a limited number of students will be admitted to the course, and no one may take it who does not confer with the head of the department before the close of this term.



AGRICULTURAL BUILDING

## SPECIAL EVENTS DURING SHORT COURSE SESSION.

An effort is made to make the time that the short course student spends at the college both interesting and profitable by having as many special agricultural and entertaining events as possible take place during the short course session.

Early in the course there will be held the annual meetings of the various breeders' associations, which bring to the college the prominent breeders of all classes of live stock. These meetings are open to all who are interested in the breeding and improvement of stock, and students attend the meetings of the association in which they are particularly interested. This affords an unusual opportunity to meet and know the men who are influential in live stock circles, and to hear addresses by the leading specialists of this and other states as well. The general session of the Michigan Improved Live Stock Breeders' and Feeders' Association is held the day following the meetings of the separate breed associations. Practical problems of the breeder and feeder are discussed at this meeting by men who can present up-to-date material.

Special one-week courses in corn production, dairying and poultry are held during January and February, and each of these bring to the college men of recognized ability in their special subjects. Opportunity is given the short course student to attend demonstrations and hear lectures given by these men, and to meet and talk with them about their own particular questions.

A series of Friday night entertainments is planned, to give something of interest apart from regular school work. These are begun by a reception given to the short course students by the Y. M. C. A. This is always a very pleasant affair, at which the short course students become acquainted with the regular students and faculty. Other Friday

nights are occupied by musical programs, and illustrated lectures on popular and entertaining subjects.

All special students are welcome to attend the meetings of the Farmer's Club and Horticultural Club, which are held every week on Tuesday and Thursday nights. These clubs offer an opportunity to meet the regular students, hear topics of general interest presented, and join in general discussion.

Other things of much interest to all will take place during the Short Course weeks, and no opportunity will be lost to make that time one full of events to be remembered.

## ENGINEERING SOCIETY.

"Notes on Line Construction" was the subject of the address given before the Engineering Society last Wednesday evening by Mr. G. N. Lemmon, superintendent of the M. U. R.

In the course of his talk, Mr. Lemmon brought out the necessity in present electrical engineering practice of making alterations in power house equipment and outdoor construction while the plant is in operation. These changes must be brought about with the least inconvenience to the power consumer, and at the lowest possible expense to the operator. Also, there must be no break in the service during these changes.

How this was accomplished in a specific instance, when it was found necessary by the M. U. R. in Youngstown, Ohio, to change the insulators on a 1100-volt transmission line to a size capable of withstanding a required voltage of 2300, was most instructively brought out by means of stereopticon views, together with many photographs which were shown those in attendance. Such illustrations clearly bring out the ingenuity and resourcefulness required of the present day engineer.

The next regular meeting of the society will be held on Tuesday evening, Dec. 19.

## ALUMNI

BERT K. CANFIELD, '89.

Dies at his home in Ravenna, Ohio, on Thanksgiving Day.

Dr. Beal sends to the RECORD a clipping from the *New York Times*, concerning the death of Bert K. Canfield, a successful artist and sculptor of New York City. We quote from the *Times* as follows:

"Toledo, Ohio, Nov. 30.—Bert K. Canfield, a wealthy artist, 40 years old, died this afternoon from an attack of hydrophobia, at his home in Ravenna, Ohio.

"Canfield made animal drawings his specialty. Ten weeks ago he and Joseph Graboneau, also of Ravenna, were bitten by a mongrel dog, which sank its teeth into Mr. Canfield's hand. Both men had their wounds cauterized and forgot the incident until late in October, when Graboneau developed symptoms of rabies. He died on Nov. 14.

"Mr. Canfield went to New York the same evening, and took the Pasteur treatment, returning to Ravenna last week. He seemed to be all right until Sunday, when strong symptoms developed. On Monday he went to the White hospital, where he became worse, and on Wednesday morning was taken to his home, where he died this afternoon."

Mr. Canfield had met with splendid success in his chosen work, one of his productions being a bust of ex-president Willets, now in our College library. He was a prominent member of the Phi Delta Theta organization.

He was prominent in athletics, and during his senior year pitched for the baseball team, and also captained the same. He was also art editor of the first annual at M. A. C., and his class, '89, was the largest in the earlier history of the institution.

'05

J. Lynn Thomas of College Station, Texas, writes as follows:

It certainly is great to see a friend from your home town, but I think the pleasure is more to meet a man from your own college class whom you have not seen since the day of graduation, as I did C. A. Reed the other day. Neither of us knew that the other was in this part of the country, or that the other was in the government service. Both in the same work, and not having seen each other since our college days, we spent a very enjoyable day together, going over old times and discussing things as we now find them out over the country in our work.

'08

The following announcement has come to our desk: "Mr. and Mrs. Newell J. Hill, at home after February 1st, 73 Highland Ave., Highland Park, Detroit."



## The M. A. C. RECORD

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TUESDAY, DECEMBER 12, 1911.

**T**HIS issue of the M. A. C. RECORD is mailed to several thousand young men throughout the state, with the idea in mind of presenting more forcibly the advantages to be gained in attending one of our special winter courses. Nearly 2,300 men have attended these courses in past years, and we are sure that each one has been greatly benefited thereby.

Each department has very kindly furnished articles on the particular work attempted by them, and we trust they will be read with care. If you have not already received a circular write to Pres. Snyder, and a copy will be mailed at once. Think the matter over seriously, and then decide to come to M. A. C. on Jan. 2.

### APPLIED SCIENCE STUDIES IN THE SHORT COURSES.

The prospective short course man is apt to wonder why subjects such as bacteriology, botany, entomology, agricultural chemistry and physics appear among the list offered, while his judgment would seem to indicate that the time ought to be given solely to agricultural subjects, such as stock judging and feeding, dairying, crop production, soil cultivation, farm construction, etc. While it is true that one cannot even start a study of these sciences in eight weeks, it is also true that they have such a direct bearing on the success or failure of the practical lines that certain principles at least must be known and reckoned with in good farming methods. The farmer of today ought to be able to interpret the commoner terms used in these sciences as applied to farm methods and conditions in the agricultural press.

Bacteriology is a big high sounding word, but the farmer must realize more and more that bacteria have powerful influence in regard to the success of his operations. Soil is no longer regarded as simply "dirt," but as a realm inhabited by myriads of bacteria having to do directly with crop production, and that certain cultural methods must be employed to produce the proper conditions to enable them to do their work. The dairyman of today must know how to suppress certain undesirable bacteria and stimulate others essential to the production of desirable flavors and good keeping qualities in dairy products. And so, too, the diseases of domestic animals from which great losses occur are of a bacterial character; the farmer should know how to avoid them as far as possible.

The diseases of farm crops are included under studies in botany, and the list comprises some of vital interest to the farmer, such as the smuts and rusts of cereals, the rav-

ages of which may cause losses of from 25 to 50 per cent. of the crop unless avoided or checked. It is important, too, that the farmer should be able to identify the most troublesome noxious weeds and their seeds, and should know the peculiarities of their habits of growth and methods of control.

Entomology bears a close relation to the success of the farmer, fruit grower, and gardener. It is possible for such insects as the Hessian fly, cut worm, wire worm, root borer, clover midge, etc., to almost totally ruin cereal or leguminous crops, according as the case may be; methods of avoidance and control are possible if the farmer understands the conditions and methods of control. The entomologist has made it possible to control scale insects, such as the San Jose scale, oyster shell bark louse and the codling moth, etc., which would render the efforts of the horticulturist fruitless.

The successful feeder of farm animals must know the meaning of terms used in agricultural chemistry relating to the constituents of foods, such as protein, carbohydrates, etc., in order to formulate rations intelligently. The farmer should also know how to properly interpret the terms most commonly used in relation to fertilizing constituents essential to plant growth, with which he now has to deal as a commercial commodity on the market.

The principles of physics have a direct bearing on the most common farm practices, as well as the most intricate. Agriculture is becoming more and more mechanical; the machine is playing an ever increasing part in the business. The principles of draft as applied to farm implements and machinery is now one of great importance. And so, too, in another and even greater field, physics in its relation to soil conditions, is becoming more and more understood, enabling the farmer to produce and control physical conditions in the soil essential to plant life. These considerations relate to such as the various water movements in the soil, as well as conditions of aeration, temperature, etc.

The brief designations necessarily used in connection with the work given under the above subjects may at first thought present a formidable appearance, leading into paths of mystery, but the opposite is true, for a consideration of the application of this work to agriculture is both pleasant and profitable.

Prof. Chapman, with his class of sophomores, will make an inspection trip to various manufactories in the city next Saturday.



### THE LIVE STOCK SHOW.

About twenty-five junior and senior agricultural students, with Instructor George Brown, were in Chicago Monday and Tuesday of last week, to attend the International Live Stock Exposition.

Monday was spent at the Exposition and stock yards. The exhibitions of horses, cattle, sheep and swine were all splendid. The horses were the great drawing card, and nearly every breed known was represented. Great care is taken in the grooming and decorating of these beautiful animals, and they made a very pretty picture in the ring.

The Aberdeen Angus and Herefords presented the finest cattle exhibits, and were viewed by hundreds of enthusiastic cattlemen.

Monday evening was spent at the horse show, the M. A. C. men occupying seats in the west end of the pavilion.

Tuesday morning the boys made a trip through the various packing houses. Without such a trip the magnitude of these establishments and the number of cattle handled cannot be comprehended.

The land show, held in the big Coliseum building, was also a place of interest. It is conceded to be the greatest show of its kind ever held, and proved a great attraction for the hundreds of visitors.

A few of our M. A. C. men stayed over for the college banquet on Wednesday evening. This banquet is an annual affair, and each college in turn is given the management. Ohio State did the honors at this time.

The trip was enjoyed by everyone, and each, we believe, felt well repaid for the time and money expended.

### VENISON ROAST.

The Olympic Society held their annual venison roast Saturday evening, and their rooms were transformed into a veritable forest. Dancing began late in the afternoon, followed by a banquet in Club A at six o'clock.

Ward Parker presided as toastmaster, and the following toasts were called for:

"Ourselves," R. H. Davison.

"The Eternal Feminine," C. L. Merwin.

"Reminiscences," E. H. Burt.

Logan's Orchestra, of Lansing, furnished music. The patrons were Dean and Mrs. Bissell, Prof. and Mrs. Eustace and Instructor S. L. Crowe.

A large number of former society men were present to enjoy the feast and dancing.

### GENERAL AGRICULTURAL COURSE.

The first year general agricultural course is designed to give the student instruction in the wide range of problems encountered on a general farm, equal prominence being given to the study of live stock, soils, and crops. The work in stock combines lectures, recitations, and work in the judging room, with all classes of farm animals. Courses are given in the feeding, care and management of stock in both health and disease. The more important kinds of soil are studied, attention being given to the relation of these soils to crop production. The important field crops of Michigan are taken up, and their rotation, cultivation and improvement discussed. Practice is given in iron and wood work, in which much stress is laid on the use and care of tools. This practice increases the student's ability to do work with his hands, and accomplish the light repair work of the farm with ease and satisfaction. Instruction is also given in fruit culture, spraying, pruning and gardening, such as is in place on the average Michigan farm.

The second year general agricultural course continues the work of the first year in live stock, soils, and crops, and offers other more advanced subjects in addition. In these subjects, special problems of the farm are considered, such as insects of the garden; orchard, farm crops and domestic animals; symptoms and treatment of the especially common diseases of farm animals; bacteriology, including disinfection, sanitation, control of contagious and infectious diseases; the chemistry of common things; problems of physics of general interest, such as cold storage, heating, ventilating, power appliances, and lighting farm buildings. In addition, work is given in farm dairying, which deals with separators, Babcock test, and the care and manufacture of dairy products on the farm. The care and operation of steam and gas engines, concrete construction, pipe fitting, construction of farm equipment, etc., are taken up in farm engineering.

'93.

Sidney S. Bump, with the class of '93, died at his home in Petoskey on Dec. 5, of typhoid fever, after an illness of three weeks. Mr. Bump has been engaged in the hardware business for several years, and was one of the city's most prominent and progressive young business men. He leaves a wife and two little girls.



### THE DAIRY COURSES.

The short courses in dairying comprise four separate and independent courses. They are as follows: Creamery butter making, creamery management, cheese making and farm dairying. The course in creamery butter making has thus far proven the most popular of the above courses, if the number of students taking the course is to be a guide to its popularity. This deals quite largely with the theory of butter making, and to prepare the man of limited experience for undertaking the work with more confidence. It gives daily practice at the churn and thorough drill in the different processes of the creamery. It enables him to take hold of his season's work with a much more complete knowledge than he could have from several years of factory experience.

The course in creamery management is intended for those who have already completed the course in creamery butter making, and who have subsequent to this had a number of years of successful experience in creamery work. It is intended to give a better scientific background for the work which the men have already been working on, and which they will continue to carry on in the future.

While the number of cheese factories in the state of Michigan are not increasing as rapidly as the number of creameries, due to the fact in some instances that the condensery business is in some sections of the state established in the cheese making areas, still the number of men who have taken the cheese making course in past years have found ready employment.

For those who are to return immediately to the farm, the course in farm dairying is proving especially desirable. The production of milk and cream, and their proper care and management before marketing are topics of very vital and basic importance to the dairy industry of the state. This is particularly true since the gathered cream system of butter making is quite generally practiced in this state. The erection and operation of the farm separator is taught to all men who take the second year course in general agriculture. These also receive instruction in making the Babcock test. This is extremely necessary in connection with the separator, because without it the efficiency of the machine could not be measured. It also gives the man upon the farm the ability to measure the productivity of the cows in his herd.

Each year more importance is attached to the dairy operations as carried on on the farm, and the instruction as given the men help to improve the quality of the dairy farm products.

The corps of instructors in the creamery course for this coming year are as follows:

Prof. A. C. Anderson, who, besides the general supervision of all courses, will teach the work in dairy cattle as given to the members of the creamery management course.

Instructor H. W. Newhall, who, besides teaching the theory of butter making, will teach the Babcock and other tests.

Dr. C. H. Marshall will give a series of lectures on dairy bacteriology.

Mr. Simon Hagedorn will instruct all the creamery men in the

matter of pasteurization and starters.

Mr. H. D. Wendt, besides assisting in the work in farm dairying, will teach the operation of the churn.

Mr. Chas. H. Dear will have charge of the course in cheese making, and will also assist with the work in farm dairying.

Mr. Chas. W. Brown, of the bacteriology department, will have charge of the course in creamery management in so far as it relates to fermentation, starter, pasteurization, and kindred topics.



A HAPPY FAMILY

### POULTRY COURSE.

If the success of the work in a department may be judged according to the results of those who have followed the lines of their teachings and suggestions, and who have been successful in their commercial enterprises, the Department of Poultry Husbandry has reason to believe that its efforts have proved helpful in supplying a short course for the busy persons who wish the knowledge, yet who cannot leave their situation for greater length of time. In addition to supplying the demand for the regular short course, there has been added a shorter course, or one week's institute, which may be a great aid to the farmer, fancier, and business man who must limit himself to so short a time, yet who desires to avail himself of an opportunity to observe the work of individuals well posted in the modern methods of poultry raising.

The regular course will cover a period of eight weeks, but will include the subjects taught in the course for regular students. Five hours each day will be devoted to poultry work. Three hours a day may be reserved for work in other departments, such as stock feeding, horticulture, or farm mechanics. Lectures will occur daily upon the various phases of poultry raising, such as house construction and yarding, feeds and feeding, figuring rations, judging, exhibiting, incubation, brooding and diseases. Laboratory work will consist in the practical application of many of the principles, of studying feeds, drawing plans, estimating cost, judging, exhibiting, etc. Practice work in feeding for egg production and operation of incubators will be allowed, and much demonstration work will be done in caponizing, grading and candling of eggs and killing and dressing of poultry. Visits will also be made to nearby poultry farms.

Last winter the first annual Poultry Institute, which is in itself a very beneficial one week's course, met with such favor that there is

Up to the present time an unusually large number of inquiries have been received, and more have applied for admission to the creamery courses than ever before at this season of the year.

'92.

It may not be generally known that E. R. Meserve, an M. A. C. student in '88-'89, died at his home in Los Angeles on Aug. 31 last, following an attack of pneumonia. Mr. Meserve was a prominent florist and nurseryman in Los Angeles.

every assurance of greater interest this season, and the best of speakers have been secured for the lecture work. Professor Graham, of the Ontario Agricultural College, will be most heartily welcomed, as will Franklane L. Sewell, artist for the American Poultry Association. These men were both with us last year, and need no introduction. Professor A. J. Phillips, of Purdue University, Lafayette, Ind., has consented to attend part of the sessions, and will bring with him many good lantern slides for his lecture work. Michigan people will be especially glad to know that Chas. B. Cook, of Owosso, will also speak during the week.

The value of this work cannot be estimated. Michigan poultrymen cannot afford to miss this opportunity.

In connection with the short course, and at the time of this Poultry Institute, will occur the Fourth Annual Poultry Show. No entry fee will be charged. Score cards and ribbons will be given. Breeders are requested to send their birds and to attend the show. The best of care will be given the birds, without charge, and judgment will be passed by Jas. Tucker and Wm. Wise, who will be glad to offer suggestions and reasons, and to otherwise aid in the educational feature of the show. The regular student judging contest will be held at this time, for which prizes will be offered.

During the term, regular meetings of the M. A. C. Poultry Association will be held, and all short course students will be most cordially invited to co-operate in making these helpful and interesting.

Poultry Show and Institute Week will occur during the week of February 12-17, 1912.

It is hoped that our past experience will aid in making this course more helpful than ever. The charge is not great, the time is not long, but the benefits are many. No one interested in poultry culture should miss this occasion to take all or part of the work offered.

### THE FRUIT COURSE.

Fruit growing in Michigan is developing rapidly, and each year becomes a more specialized business. To be successful requires a practical knowledge of how to handle trees and grow fruit; and in addition, a man must have a knowledge of plant diseases and insects and the most approved ways of controlling them. To know something about soils and the "why and how" of tillage; the fertilizer elements and how they are supplied, is of greatest importance. Thousands of dollars are spent for commercial fertilizers every season and the successful fruit grower must understand how to buy and to mix and apply them in the most economical way. During the past few years the gas engine has come into very general use on many fruit farms and it is highly desirable that every man who has to handle a spraying outfit should have a good understanding of the principles of the gas engine and know how to operate and care for the different types of engines that are now used on power spraying outfits.

During the four weeks of this fruit course, every facility of the college will be used to give the students a practical knowledge of the above subjects.

Fruit growing will be thoroughly considered from the selection of the site to the marketing of the crop. A large collection of varieties of fruit from the college orchards and the South Haven experiment station are being held in cold storage for study, and every member of the class will have an opportunity to become thoroughly familiar with all the varieties of Michigan winter fruit. In addition, the department of horticulture has secured, from many other states, collections of apples and these will be compared with the Michigan kinds. A large collection of apples has been secured to show the results of spraying with the Bordeaux mixture and the newer mixture known as lime-sulphur. This collection is one of the greatest interest to fruit growers in Michigan at this time.

The important practice of spraying will be thoroughly discussed and each student will be expected to make and test every kind of spraying solution and poison now in use. A large collection of spraying appliances will be on hand to be tried and tested.

One of the pleasant features of this course will be the talks to be given from time to time by some of the successful fruit growers of this state. It will be an inspiration to meet and hear these men tell of their methods and results.

The business of renting and improving apple orchards in Michigan is now an important one and some of the men who are taking this work on a large scale will tell of their methods.

The college is constantly receiving inquiries for young men of some practical experience and a knowledge of the fundamental principles of fruit growing to fill positions as managers and superintendents of fruit farms. These positions frequently carry a salary and a percentage of the profits, and offer attractive openings for young men who do not have the capital to start in the business for themselves.



## THE VETERINARY DIVISION OF M. A. C.

The many inquiries concerning the character of work and opportunities afforded in the veterinary science course, designed to give vocational training, that have been made recently emphasizes the fact that members of the sophomore and freshman classes are devoting no little thought to this question; indeed, so often are we called upon to give information relative to the new course that even though incurring the danger of repeating certain statements presented a year ago, we are prompted to believe a few facts will prove of interest to many.

Modern veterinary science, which has of late taken a leading place in the professional work of man, and after many years of empirical struggle found its own, is defined as "comprising a knowledge of the conformation and structure of all domestic animals; their physiology and special racial and individual characteristics; their humane management and utilization; their protection from and medical and surgical treatment in the diseases and injuries to which they are exposed; their relation to the human family, with reference to communicable disorders; and the supply of food derived from them for use of mankind." By careful perusal of this definition the most skeptical individual must be convinced of the usefulness and humanitarian status of those electing veterinary science as a chosen profession.

In the choice of a profession, few are influenced by thoughts entirely void of pecuniary consideration, and hence we are justified in devoting the greater part of space here allotted to a discussion of the fields of activity open to graduates. At present, with the demand for skilled veterinarians growing at a greater pace than the supply, there are, among other fields of service, the following opportunities of choice:

Practice in many desirable locations awaits the graduate, as there are today in this state and elsewhere towns, cities, and counties where there resides no regularly qualified practitioner, and again there are three times as many physicians of human medicine as veterinarians; hence it is obvious that graduates possessing fitness and aptitude for this kind of work will meet a ready demand and substantial compensation for his services. In this connection, it is well to call attention to a factor so prominent in many lines of work, viz., that of the amount of capital necessary to launch a new business enterprise; but in establishing veterinary work, capital plays a very subordinate part, as exemplified in success met by the number of graduates that annually leave the various veterinary colleges with little if any cash, and today many such men are enjoying a yearly income exceeding five thousand dollars.

Stock farm managers are frequently selected from the veterinary profession, and the co-operation of veterinarians with live stock breeders in advice pertaining to breeding, judging and caring for the vast interests of the country along this line has been found especially attractive. Federal meat inspection, employment in the bureau of animal industry and our insular possessions attract scores of graduates owing to

the attractive nature of the work and lucrative returns. Salaries range from \$1,400 to \$2,500 per year.

The office of state veterinarian is maintained in many of the states for the purpose of combating preventable diseases of live stock, and on account of a recent law governing the interstate transportation of live stock, such an official becomes indispensable, and the time is not far distant when all states will see the necessity of creating this office. The duties of a state veterinarian are by no means distasteful and the remuneration is quite satisfactory.

Municipal health officers and sanitary science work as investigators of contagious and infectious diseases of live stock, are always open to properly qualified veterinarians; veterinarians to experiment stations, and instructors in agricultural and veterinary colleges both in America and foreign fields; milk and meat inspectors; army veterinary service with allowance pay and retirement privileges of second lieutenant mounted; and other positions are among the growing field of veterinary specialization.

Vast improvements have recently been made in veterinary colleges, especially in regard to the requirements for entrance and the character of instruction given. This advancement is largely due to a demand made for a more scientific, broad-minded graduate, whose future success depends upon his ability to cope with the new duties that are so constantly being uncovered for him to perform. Most of the state institutions now maintaining a veterinary division require a high school diploma, or its equivalent, thus eliminating a class of students that have been heretofore poorly prepared for a professional course, for it is generally conceded that a preparatory course is indispensable to a full comprehension of the complex problems involved in the efficient study of veterinary science. The veterinary division of this institution requires for entrance four years' high school work, or its equivalent; the college course covers four years, and successful completion of this work as prescribed in the catalog leads to the degree of doctor of veterinary medicine.

## THE VALUE OF AGRICULTURAL EDUCATION.

The question is often asked, "Does an education pay?" In answer we would ask: Does it pay to increase a man's efficiency? Again, Does it pay to increase a man's powers of appreciation and discrimination? And again, Does it pay to increase the productive powers of the individual? All these must be answered in the affirmative.

Now the aim and purpose of education is to develop effectively those principles as stated, and to produce the abilities mentioned.

The great word in the industrial world to day is "efficiency;" and efficiency comes alone from training and development. If the farmer is to become more efficient, he must be trained for his work. He must know more about it. The purpose of the establishment of all forms of schools and colleges is that through these means men and women shall be enabled to see more, hear more, feel more, produce more; that is, to *live* more; and if it can be shown

that education produces these results, then we answer emphatically that an education pays.

Just now there is a great awakening of interest in the subject of agriculture. Commercial needs demand it, and the farming population must meet these needs. All cannot attend college, and because of this fact institutions are offering summer courses and short courses of various kinds, the purpose of which is to assist in bridging over the present emergency. The Michigan Agricultural College offers short courses in agriculture and horticulture during the winter months, when the farmer has the largest amount of time which he can give to study. Every young man in the state who has not taken, or who is not able to take, a course in an agricultural school should avail himself of the privilege the short course offers. The young man of today, who is to be the mature, seasoned farmer of tomorrow can, through these short courses, secure the fundamental information upon which he can base a successful career, and to be successful is the desire of every human heart.

Success does not necessarily mean more money. It means more comfort, more pleasure, more power. It is to these purposes that the short course addresses itself. The doors of the institution are wide open to the young men who are now in the active practice of agriculture, and who feel the need of more information in order that they may become more useful and more powerful in the productive world.

The short course is not equal to the college course, but it does lay a foundation, and on this foundation the young farmer can build a successful career if he will.

## FARM MECHANICS.

The work given to the short course men in the farm mechanics department includes much of that taken by the regular four-year men. The first-year men get work in both the carpenter and forge shop. An attempt is made in all the work to make it applicable to actual working conditions. Besides acquiring familiarity with the use of tools in the wood shop, the student has exercises in "staking out" buildings, laying out and cutting common rafters, and constructing small models of farm buildings. This work is not intended to make a carpenter or builder of the student, but it does enable him to plan and construct small buildings, such as chicken houses, hog houses, etc.

The forge work requires good hard work in hammering out, under the direction of the instructor, bolts, clevises, whiffletree irons and other articles of use about the farm. Tempering tools also occupies a small part of the time. Mr. Watt's anvil chorus, as this work has been termed, has become a familiar sound under the very shadows of the new agricultural building.

Perhaps the most interesting part of the short course work in farm mechanics is the course given to the second year men, called farm engineering. In this work, power machinery and concrete work are included. In power machinery the study of the gasoline engine proves to be most fascinating. After a course of lectures explaining the principles of operation, the student

is taken into the laboratory. After learning to manipulate and control an engine, it is thrown out of commission. It may prove a short circuit, broken spark plug, or water in the gasoline. The student sets to work to correct the faults. He is admonished to put the engine in running order by going through certain tests before attempting to start by cranking. Howbeit, he often feels the perspiration trickling down his face before the engine in silent stubbornness yields to some little twist of a thumbscrew that has been overlooked. Besides the work in power machinery, there are also exercises in babbitting, soldering, belt lacing and putting up line shafting.

## EQUIPMENT AND FACILITIES FOR ADMINISTERING THE AGRICULTURAL COURSES.

### BUILDINGS AND LANDS.

The college lands at East Lansing comprise 684 acres valued at \$68,400. These lands are subdivided as follows, viz.: Athletic field and drive, 13 acres; campus, 90 acres; orchards, nurseries and gardens, 45 acres; experimental plots, 40 acres; forest and forest nursery, 164 acres, and the farm proper, 331 acres.

The total value of all buildings belonging to the college is \$839,900. The farm buildings including those used for horticulture, poultry and experimental purposes are valued at \$32,475. The value of all live stock, including poultry, is \$25,092. There is over 13 miles of tile drain on the farm, which is enclosed and subdivided by 13.5 miles of fence.

### CLASS ROOMS AND LABORATORIES.

Much of the lecture and laboratory work is given in the new agricultural building, a picture of which is shown on page one. This is a five-story building with class room capacity for about 1,850 students, besides the soils laboratory, with space and equipment for 96, the crops laboratory for 72 and the live stock judging pavilion which can accommodate two classes of over 100 each at one time. Most of the offices of the agricultural division are also in this building. The horticultural and dairy buildings are fully equipped with material and appliances needed in the special courses in those lines.

For students in horticulture, greenhouses covering about 15,000 square feet of ground space are available for laboratory work in addition to 45 acres of orchard, nursery, gardens, etc., used for demonstration and practice work. In addition to this the campus, comprising about 90 acres, forms a spacious landscape gardening laboratory with its almost endless variety of trees and shrubs interspersed with drives and walks. The horticultural substation of 15 acres, at South Haven, Mich., can furnish about 2,000 varieties of fruits for class use.

### LIVE STOCK.

The live stock equipment consists approximately of 30 horses, 60 beef cattle, 55 dairy cattle, 175 sheep, 150 hogs and from 1,000 to 2,000 chickens. Twenty-eight breeds and types of live stock are represented as follows, viz.: horses, 3; beef cattle, 5; dairy cattle, 4; sheep,



7; hogs, 6, not including 12 breeds of chickens.

#### EXPERIMENT STATION.

Nearly all of the departments giving instruction in the short courses are directly connected with the experiment station work, thereby bringing the student in closer touch with this institution and the most recent investigations. The station publishes from fifteen to eighteen bulletins, circulars, etc., per year, and has a mailing list of 65,000. Available bulletins of the experiment station, of especial interest, may be procured at the bulletin room in the Agricultural Building.

#### LIBRARY.

The college library contains 32,600 volumes with everything up to date pertaining to agriculture. The short course student has access to the library, enjoying the same privileges as regular students. The reading room contains a large number of literary, political and scientific journals as well as the leading daily and weekly papers of the state.

#### THOSE WHO HAVE ATTENDED THE SHORT COURSE.

The first class met in 1897 with an attendance of 45; this number has increased each year to 330 in 1911, making a total enrollment during this period of 2,299.

#### THE COMMUNITY BENEFITED BY THE SHORT COURSE MAN.

It is not an easy matter to foretell the extent to which a community may be benefited by having one of its sons attend the short courses at the Michigan Agricultural College. The country lacks young, strong, energetic men, imbued with the new agricultural ideas and inspirations. The agriculture of Michigan is suffering because so many of her young men have been given up to the development of the west, or have gone to the towns and cities. The older men, the land owners, have retired to the village and town, leaving the farm in the hands of the tenant. The tenant, with the short lease, takes as much out of the soil as he can, returning comparatively little, while buildings and fences deteriorate and the property becomes less valuable from a market standpoint.

In an eight weeks' short course it is not possible to present more than a few of the fundamental principles relating to improved agricultural practices, and if the young man acquires but one or two new ideas only, and receives a stimulus to go home and apply these practices well and persistently, much good may eventually result in the community.

It very often happens that example wields a more powerful force than written or spoken words. New methods, if practicable and successful, stand as silent witnesses before the farmers of the community, throughout which they are sure to spread. For instance, the following example is a characteristic one: A short course man introduced alfalfa into a community where it was practically unknown, and but two or three years elapsed before this wonderful crop was being grown on a large percentage of the farms, furnishing a food factor for live stock which relieved the necces-

## APPOINTMENTS AND PROMOTIONS.

### HEADQUARTERS CORPS OF CADETS.

Subject to the approval of the President of the College, the following appointments and promotions in the Corps are announced:

(Continued from last week.)

#### SECOND BATTALION.

To be Major, Hammond, H. L.			
1st Lieutenant and Battalion Adjutant, Bone, H. E.			
2nd Lieutenant and Battalion Quartermaster and Commissary, Barnum, C. F.			
Battalion Sergeant Major, O'Donnell, C. L.			
To be	Company "E"	Company "F"	Company "G"
Captain,	Stahl, C. A.	Gibson, E. H.	Sorenson, A. A.
1st Lieut.,	Fields, W. S.	Webb, C. E.	Vincent, W. C.
2nd Lieut.,	Vinning, K. K.	Allen, P. I.	Parsons, C. W.
Ad'l 2nd Lt.,	Delzell, H. W.	Crysler, F. W.	Wood, W. A.
1st Serg't.,	Goodwin, O. T.	Davison, R. H.	Gilson, C. A.
Co. Qm. Sg.,	Spraker, E. C.	Olney, A. J.	Geyer, E. C.
Sergeants,	Moore, J. M.	Niles, C. M.	Loree, R. E.
	Yunker, T. G.	Pickford, I. T.	Bauer, W. F.
		Thompson, L. H.	Friedrich, O. H.
		Sibley, J. S.	Norman, R. P.
		Volz, E. C.	Taylor, O. A.
Corporals,	Tuthill, C. B.	Middlemiss, E. C.	Conway, L. J.
	Francisco, D. W.	Barman, D. E.	Johnston, Jas. C.
	Postiff, C.	Bird, H. S.	Reynolds, C. W.
	Milburn, L. C.	Pickford, V. C.	Daugherty, C. J.
	Gauthier, G. A.	Knight, J. H.	Holcomb, B. J.

#### THIRD BATTALION.

To be Major, Conway, G. F.			
1st Lieutenant and Battalion Adjutant, Caldwell, T. H.			
2nd Lieutenant and Battalion Quartermaster and Commissary, Hock, E. F.			
Battalion Sergeant Major, Conway, T. E.			
To be	Company "I"	Company "K"	Company "L"
Captain,	Tenkony, R. J.	Edison, A. W.	Gearing, M. J.
1st Lieut.,	Runner, A. J.	Taylor, C. H.	Hansen, M.
2nd Lieut.,	Palmer, G. H.	Clothier, H. G.	Klinger, K. M.
Ad'l 2nd Lt.,	Bissell, R. E.	Smithfield, W. B.	Remer, G. D.
1st Serg't.,	Dennis, J.	Nicol, S. B.	Towar, J. de L.
Co. Qm. Sg.,	Bridges, J. H.	Barton, C. F.	Shaver, T. R.
Sergeants,	Carstens, C. C.	Schuyler, H. A.	Stone, D. D.
	Reiley, W.	Beeman, H. N.	Toland, D. P.
	Merwin, C. L.	DeGraff, E. W.	Ketchum, P. W.
	Sanborn, W. F.		Wilson, A. J.
Corporals,	Baker, P. C.	Bishop, R. S.	Hart, E.
	Fralick, B. L.	Palmer, J. E.	Gallagher, H. J.
	Pratt, P. C.	Moran, F.	Snyder, R. M.
	Finch, A. L.	Crane, H. B.	Ziel, H. E.
	Welch, A. E.	Chartrand, L.	Hodgkins, R. D.
	Streiter, M. L.	Baxter, E. G.	Holden, H. P.

#### HOSPITAL CORPS.

To be 1st Lieutenant, Doan, G. H.  
Sergeant, 1st Class, Bowles, H. R.

#### SIGNAL CORPS.

To be 2d Lieutenant, O'Dell, G. M.  
1st Class Serg't, Davidson, W. L.  
Sergeant, Filkins, S. J.

#### ORDNANCE CORPS.

To be 2d Lieutenant, Gridley, N. B.  
Ordnance Sergeant, Wright, H. K.

A. C. CRON.

1st. Lieut., 10th U. S. Infantry.

Professor Military Science and Tactics.

#### HORTICULTURAL SOCIETY AT LUDINGTON.

Schleussner and Smith Are Seniors to Get First Places in Speaking and Judging Contests.

One of the most successful meetings in the history of the Michigan State Horticultural Society took place at Ludington last week. They started on Tuesday morning, and the M. A. C. delegation arrived Tuesday evening in time for the banquet. Prof. Eustace and Messrs. Gunson, Halligan and White were present, besides twelve of the seniors. That evening Prof. Eustace and G. V. Branch responded to toasts at the annual banquet, and thus represented the college with other speakers at this function.

The busy day for the seniors was Wednesday. At ten o'clock they were on the program with their five-minute talks. The topics of these were as follows: "Horticulture in the West," H. L. Bancroft; "Combination Shots in Horticulture," G. V. Branch; "Life History and Control of San Jose Scale," E. W. De Graff; "Pear Blight and Its Control," A. W. Eidson; "Life History and Control of Codling Moth," L. B. Gardner; "The Brown Rot of Peach," F. H. McDermid; "Cover Crops," M. T.

Munn; "Apple Scab," F. W. Cryslar; "Co-operation," R. G. Kirby; "How Lime-Sulphur Kills the San Jose Scale," O. W. Schleussner; "Apple Conditions in Western New York," Edwin Smith; "The Peach Tree Borer," H. G. Taft.

These talks seem to be very popular at the meetings of these practical fruit growers, and the speakers received the best of attention. The judges accorded first prize, \$15.00, to O. W. Schleussner, N. Y. City; second prize, \$10.00, to F. H. McDermid, Battle Creek; third prize, \$5.00, L. B. Gardner, Lansing.

The fruit judging contest followed this, and consisted of identification of varieties and collection judging. Mr. O. K. White and Prof. Halligan acted as officials, and prizes were awarded as follows: First, \$15.00, Edwin Smith, Lodi, N. Y.; second, \$10.00, H. G. Taft, East Lansing; third, \$5.00, O. W. Schleussner, N. Y. City.

The practical education secured by students in attendance at these meetings is of great value, as a large range of topics was covered each day by practical fruit growers. Among the college men to appear on the program were: Prof. Eustace, with "Fruit Farm Cold Storage Buildings," and a stereopticon lecture "Scenes on Many Michigan Fruit Farms;" Prof. Pettit, with an illustrated talk, "Insects Every Fruit-grower Should Know;" Prof. Patten, with "Practical Demonstration in Buying Fertilizers." A large number of Alumni were present, some of whom were conspicuous on the program.

#### FARMERS' CLUB.

The student body at M. A. C. duly appreciates its technical clubs. To the students in agriculture, the Farmer's Club has always been the place where they could feel at home. It was especially evident during this year's meetings. The large room, 109 Ag. building, was more than once crowded to its full capacity, and no meeting could complain of a meager attendance. This is principally due to the fact that the club has been fortunate in securing speakers who delivered a message of prime interest to the future farmers. During this term, addresses were made by both students and faculty members. The following are some of the topics taken up:

Prof. Gunson—Beautifying the Farm Home.

Prof. French—Agricultural Education and its Value to the Farmer.

Instructor Linton—Marketing Poultry Produce.

Talks were also given on green manuring, marketing milk produce, sanitary dairying, "How and Why be a Good Farmer."

For the winter term an elaborate program has been arranged, with special attention to the needs of the short course students. The latter have always availed themselves of the opportunity to attend these meetings. It is a fact that these meetings have, in themselves, been an incentive to many to attend the short courses.

The meetings take place every Tuesday evening, at 6:45 o'clock, in room 109, Agr. Building.

Chas. Rose, '11, was a college visitor over Sunday. Mr. Rose is farming at Evart, Mich.



## ENGINEERING SOCIETY BANQUET.

One of the most successful terms in the life of the Engineering Society was concluded last Friday evening by a banquet held at Club B. Although this was the first banquet of the society, it was a complete success from oyster stew to cigars. The menu cards provided by the program committee were in the form of blue prints.

As toastmaster, Dean Bissell wielded the "oil can" most efficiently, and kept the wheels of the program running without a hitch.

Instructor H. E. Marsh, '08, of the engineering department, reviewed the history of the society, of which he was a charter member. He concluded his talk by wishing success to those who have started the movement to change the college name, and declared himself heartily in favor of such a change.

Prof. Kunze, of the Engineering Faculty, surprised those who had attempted to guess what his interpretation of the subject "Rechristening" would be, by translating it into the words "Michigan State College." That the Professor is mightily interested in the proposed change in name was evidenced by his remarks.

"An 'art to 'art talk" was handled by Professor Wilson. After giving much good advice to the members of the society, the Professor took the opportunity to tell how he stood on the "M. S. C." question, which can be summed up by his closing remarks: "Success must be achieved honorably."

The last toast of the evening was presented by F. H. Kane, '12, who told several amusing stories, and concluded by reviewing the actions of the M. S. C. Association.

The evening was a thoroughly enjoyable one, and President Groothuis and the banquet committee are to be congratulated.

## NAME QUESTION AGAIN AGITATED.

A short time ago a band of senior engineers issued and distributed posters among the entire student body, bearing the headlines, "Michigan State College or Michigan Agricultural College, Which?" and setting forth reasons for the change, with the admonition to "Talk it Up!"

This was followed last Tuesday evening by a meeting of the senior engineers, at which F. H. Kane presided. Prof. E. J. Kunze was called upon, and gave an enthusiastic and inspiring talk, bringing out many new points. Among other things, it was learned that in the east, and even in Wisconsin, the fact that there is an engineering course here is unknown, even among professors of engineering colleges. This is due to the fact that eastern institutions of this class seldom teach anything but agriculture. It is beyond question that the engineers are seriously handicapped by the present name. Prof. Kunze also pointed out lines of action and gave graphic illustrations showing what a band of persistent workers can accomplish.

Messrs K. B. Stevens, '06, and E. C. Culver gave their experiences in practice, substantiating what had been said before, and elaborating

upon the handicap that the present name imposes upon our graduates and students. The name Michigan State College would not only give all a square deal, but also give the school more prestige as a whole. Several committees were appointed, and the cause promises to be a live one.

### PUBLICITY COMMITTEE.

The Idlers are planning a Christmas entertainment in the Women's Building Saturday evening, from 7 to 10.

Prof. Babcock's friends will be glad to know that he is still on the gain, and indications all point to a complete recovery.

Instructor Linton was in Saugatuck Friday and Saturday of last week, where he scored several birds and instructed in methods of scoring, etc.

A party of eight poultry students, including Instructor Linton and McVittie, '11, left Monday for Guelph, where they will attend the winter fair and poultry institute.

The Alumni catalogs have been received from the press, and will be mailed to graduates upon request. It will not be possible to hand these directories out at random, as only 2,000 copies have been ordered.

Mr. O. K. White, while in Grand Rapids last week, met Mr. C. A. Reed, '05, now of the Bureau of Plant Industry of the U. S. Government, who was at that time on his way to Middleville to see his wife, who has recently been seriously ill. Mrs. Reed will be remembered as Miss Katharine McNaughton, of the same class.

The new cafe in connection with the East Lansing Drug and Grocery Co. is in active operation, and is proving a drawing card. The room is provided with eating tables which will accommodate six or eight persons, and so can very easily be taken care of at a single meal. Mr. Higgs has entire charge of this department, which in itself is assurance that proper attention will be given to all patrons.

*Plums of New York*, a volume of over 600 pages and many beautiful colored plates, has just been sent to our library by the author, Prof. U. P. Hedrick, Horticulturist of the New York Experiment Station. The work consists of a complete discussion of varieties of plums, origin, species and vicinity in which each thrives. Among Prof. Hedrick's assistants in this work was M. J. Dorsey, '06.

'06

A most interesting letter has been received from Ernest F. Smith, of the above class, whose address is 1642 Warren Ave., Chicago. Mr. Smith is still in the chief engineer's office of the Rock Island lines. His work is general office work and drafting; and always plenty to do and enough of money to keep from starving, for which he states he was truly thankful November 30. Ernest says that himself and wife are "flat dwellers, a method of living developed from the cliff dwellers of earlier ages. There are some disadvantages in this sort of life, but the one big advantage is that when you get tired of one cliff, you can always find another." On the whole, Mr. Smith likes Chicago, and is very well satisfied with his work.

## A REVIEW OF THE FOOTBALL SEASON OF 1911.

The outlook for the football team at M. A. C. for the season of 1911 was very dubious.

The schedule was lighter than that of 1910, owing to the discontinuation of athletic relations with Notre Dame and Marquette. As a result, it was a difficult matter to secure competent games in the time given to the athletic director. Nevertheless, the season was quite satisfactory.

Through graduation and men not returning to college, we lost from last year's team Ex-Captain Exelby, Capt. Cortright, Leonardson, Campbell, Pattison, Montfort and Pingle. We were therefore compelled to build a team around four of last year's better men.

We opened the season on October 7th by defeating Alma 12-0. Then the team settled down to hard work in preparation for its annual game with Michigan. For three quarters we held the strong U. of M. team to a tie score, but owing to lack of enough good substitutes and the short time in which we had to prepare for this game our team weakened, and we were beaten, after the hardest fight ever seen on the M. A. C. field, 15-3. Had we been able to substitute strong, there is absolutely no doubt in the writer's mind that we would have been able to have beaten our old rival, Michigan. Our team played as good as Michigan, if not better; but it was purely a case of weight and endurance which defeated us.

Although we were defeated squarely, it was a moral victory for M. A. C. This game gave us our prestige for the remainder of the season, for no one had an idea that, with the material at hand, we would be able to make even a fair showing.

On Oct. 21 we easily defeated the strong Olivet team 29-3, which team later won the M. I. A. A. championship.

Unfortunately for us, the Buchtel game was canceled by them, owing to faculty restrictions. As a result the varsity played the reserves and defeated them 23-0.

In a hard fought game the varsity met and defeated Depauw University on Nov. 3d by the close score of 6-0. The game was hard fought from beginning to end, but the score does not show the real strength of our team on that day, for we continually marched down the field to within striking distance of the goal, then were penalized and finally forced to punt. In the first five minutes of play we scored from the 25-yard line on a delayed pass, but the referee claimed that the ball was passed forward six inches and the man who received it was not five yards back of the line. As a result we lost a touchdown on a legitimate play. Had we had an even break in luck it is the writer's opinion that we would have defeated them at least 18 points.

On Nov. 11 we played and defeated the strong Mt. Union team of Alliance, Ohio, 26-6, which adds more credit to our team's showing, when we take into consideration the fact that Mt. Union scored more points against Buchtel than Reserve, Case, Hiram and Wooster combined. They scored nearly twice as many points against Hiram as Reserve, Oberlin, Allegheny and Wooster combined. On Nov. 30 Mt. Union defeated Ohio Northern University 19 to 0. Mt. Union is not in the Ohio conference, but from the above record one can easily see that they had one of the strongest teams in Ohio.

On Nov. 17th, when we were to play Ohio Northern University, "Old Pluvius" got in his good work and proceeded to make our field a miniature lake. As a result the game was called off, much to the chagrin of all concerned, but it was absolutely useless to play under such conditions.

With this game canceled we were forced to go three weeks without a game before our final clash with Wabash on turkey day. During these three weeks the team deserves a whole lot of credit for its faithfulness and spirit shown, and the real results of their efforts were brought forth very strongly when we defeated our old rivals, Wabash, 17-6. The victory practically gave us the minor college championship of the west.

McDermid, who has been on the squad four years, was given a monogram sweater in appreciation of his splendid work. He has been one of our most conscientious workers, and though he was not allowed to play in but one game this season, and that for only a few moments, the spirit of the man was good to see. Martin and Ballard were also awarded monograms, in addition to the regular players. Shuttleworth, Davis and Day were awarded "R" sweaters.

A photograph of the squad was taken Saturday, but we were unable to secure a print in time for this issue. Riblet, our star quarter-back, was elected captain of the team for 1912.

### THE SQUAD.

Name	Position	Height	Weight Lbs.	Age—Yrs.	Years on Team
F. A. Stone (Capt.)	L. E.	6 ft.	167	21	3
E. G. Culver	R. G.	6 ft.	174	25	2
J. E. McWilliams	C.	6 ft.	208	23	2
L. J. Hill	R. H.	5 ft. 9½ in.	153	20	3
W. R. Riblet	Q.	5 ft. 8 in.	155	22	2
E. F. Gorenflo	R. E.	5 ft. 8 in.	153	21	1
G. W. Gifford	R. T.	5 ft. 9 in.	166	21	1
A. G. Markham	L. H.	5 ft. 9 in.	161	22	1
D. McLaughry	L. T.	6 ft. 2 in.	172	22	1
L. W. Campbell	L. G.	6 ft. 2½ in.	173	22	1
G. E. Julian	F. B.	6 ft. 1 in.	177	19	1
S. A. Martin	G.	5 ft. 11 in.	189	26	1
F. R. Davis	E.	5 ft. 9 in.	140	21	
A. E. Day	G.-T.	6 ft. 2 in.	168	21	
F. H. McDermid	C.	5 ft. 11 in.	167	27	1
C. V. Ballard	H. B.	5 ft. 7 in.	154	23	1
E. H. Shuttleworth	Q.	5 ft. 6 in.	122	23	



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**ABOUT THE CAMPUS**

"The Rivals" will be presented on Thursday evening Dec. 14. Note the change in date.

Mr. W. O. Hollister, Entomologist for Parke, Davis, & Co., of Detroit, was at the College the past week, looking up data on insecticides.

Miss Caroline Holt, of our Drawing Dept., attended the 24th annual exhibition of the American Painters' and Sculptors' Association, held at the Art Institute, Chicago, the past week.

A trial by jury was held in the Chapel on Tuesday and Wednesday of last week. The trial was the outcome of an attempt by the city of East Lansing to condemn a street through certain property owned by Mr. H. B. Angell. Judge Black, of Lansing, represented the city, and the trial was heard by Judge Gardner. The jury disagreed, and a new trial has been set for Dec. 26.

In the *Hastings Banner* of Nov. 30 is an article on the Michigan Good Roads Association, and a discussion of the activities of various counties in connection with the State aid fund. The vice president of this association is N. P. Hull, with '89, master of the State Grange, and recently elected national lecturer. Mr. Hull is one of Michigan's progressive farmers and a good roads enthusiast. W. K. Prudden, '78, is a member of the board of trustees of the above association, and has always contributed largely in connection with the cause of better roads in Michigan.

Prof. and Mrs. V. T. Wilson spent the Thanksgiving recess in Detroit, visiting friends.

Dairy week will be held at M. A. C. Feb. 19-24. This will be in connection with the tuberculin test work given by Dr. Marshall.

Mrs. Bessey and little daughter left on Saturday for Omaha, Nebraska, where she will visit her parents. She expects to be gone until about the close of January.

The annual foot ball banquet, which has become so important a function in our college activities, will be held Friday evening in Club D, Wells. The feed begins at 8:00 o'clock, and a good program of toasts is assured. The tickets are \$1.00 each, and may be procured at the Secretary's office.

On the evening of Dec. 5, Mr. and Mrs. C. C. Wood entertained, with a musical program, some 50 guests. Prof. Huston, Mrs. Hesse, of Lansing, and Miss Dykstra, of Grand Rapids, were among the soloists. Refreshments were served and a thoroughly good time enjoyed.

Prof. Shoesmith and Mr. Raven spent the greater part of the past week at Union City, where they conducted a series of demonstrations and gave lectures on live stock, dairying, fertility, etc. Some 40 or 50 enthusiastic farmers were present, and the session was a most profitable one. Claud Nash is in charge of the agricultural work at this place, and one of the moving spirits in this work.

Dean and Mrs. Lyman were in Chicago a few days the past week, when the Dean attended the big stock show.

Instructor L. C. Emmons has been appointed general inspector of dormitories, and will assume his duties at the beginning of the winter term.

The greater part of last week was much like spring at M. A. C. The snow practically disappeared on Wednesday, and one could do very nicely without coat and wraps.

Neat moldings have been placed in the halls of the Engineering Building, upon which, from time to time, will be placed various photographs and drawings for the benefit of students and others interested in engineering.

Announcements have been received of the marriage, on Thanksgiving day, of Miss Bertha May Marshall and Mr. Miles J. Gilmore at Libby, Mont. After March 1, 1912, Mr. and Mrs. Gilmore will be at home at Old Mission, Mich. The bride was a former clerk in Dean Shaw's office.

Season tickets will be sold this year admitting the holders to the oratorical contest, and also to the sophomore and freshmen contests. In addition to these, the ticket will also be good for reserved seat at the peace oration contest and admission to the debate with Ypsilanti. A general admission will be charged at the peace oration contest, the season ticket being good only for reserved seat.

Mr. and Mrs. Emmons will occupy the rooms in the terrace in which Mr. and Mrs. Bowditch now live.

The church fair and sale proved a big success. It is reported that the Women's Society cleared about \$160 on the venture.

A new shed, 20x72 feet, is being constructed south of the shops on the line of the railway. It will also serve as a cover for supplies of pipe, cement, etc.

Prof. Shaw was at St. Johns Saturday, where he spoke before the agricultural students in the high school. McVittie, '11, is in charge of the Ag. work.

A number of the faculty members plan to attend the meetings of the American Association for the Advancement of Science, held in Washington the latter part of December.

At a meeting of the Station Council on Friday afternoon two bulletins were authorized,—one by Dr. Beal, on "Weeds," and the other on the subject of "Drainage," by Prof. Jeffery.

The Department of Drawing and Design desires to make correction of a statement published recently in connection with the name of the institution. The Dept. does not require students to put the name of the college in their title, as indicated in the article mentioned. If they did, the one recently authorized by the legislature would be the one required.



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### THE ENGLISH DEPARTMENT AND THE SHORT COURSE MEN.

Men who enter the college for the short courses may be interested in knowing something of the work of the English Department.

In the regular courses, students are required to study English during their freshman and sophomore years. The courses include much drill in letter writing and in other forms of composition, drill in extemporaneous speaking, and drill in the preparation and delivery of various kinds of addresses. In the junior and senior years, agricultural students have open to them a wide range of electives in the study of literature. This includes the reading of fiction, of biography, of famous foreign classics translated into English, of orations, of poetry, of the drama, of short stories, etc.

As the men who come for the short courses are primarily here for technical work which will be of practical value to them on the farm, comparatively little time has been given in the past to work along the lines of English. However, courses have been presented in letter writing, in parliamentary law, etc. It is hoped that in some way during the present winter some practical work in letter writing, as well as some work in parliamentary law and in extemporaneous speaking, may be presented. In addition to the courses offered by this department, it has been customary to have at least one talk given to the entire body of short course men concerning books of interest to the young people on the farm.

Allied to the work of the Department is the work cared for by the students themselves in their Public Speaking Association. This includes original oration contests for freshmen, for sophomores, and at least two oration contests open to all the students of the college. The Association also conducts an annual debate with Ypsilanti Normal College and with Alma College. Some of these contests will be held during the time the short course men are here. They are invited to attend these contests freely, thus seeing something of this phase of college life.

A debating society meets each Thursday evening at seven o'clock. In this, questions of present day interest are discussed. Short course men will be welcomed at the meetings of this club. When you come, come with the purpose in mind of being in this debating society regularly each week, and of taking part in the general debate which, each evening, follows the formal debate. Should enough short course men care to organize themselves into a debating club to meet once or twice a week, plans will be made to accommodate them.

The head of the English department will be glad to consult with short course men at any time during their stay, concerning any mat-

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ters which may fall within the province of his department. His office is in room 5 of College Hall.

### FIBRE PLANTS.

The chapel was filled to overflowing and many were turned away who came out to hear Lyster Dewey, '88, Wednesday evening, in his illustrated lecture on "Fibre Plants and Plant Fibres." Lantern slides were used showing views of the growing plants, method of preparation of fibres, etc. Mr. Dewey took up the most important fibre plants of the world, such as cotton, hemp, jute, abaca (Manilla hemp), flax, sisal, henequen, ixtle, zapupe, etc. The speaker has made extensive studies of the fibre plants at home and abroad while in the government service, and his talk was very instructive, as well as very interesting.

Mr. Dewey spent Thanksgiving at his old home, near Adrian, and it was because of his visit to Michigan that he was secured for this lecture. After the lecture, the members of the Research Club, with their wives, gave an informal reception for Mr. Dewey in the rooms of the Botanical Dept.

Mr. Dewey left, Thursday morning, to visit his daughter, at the University, and expected to reach Washington on Saturday.

Pres. Schleussner has called a meeting of the State Oratorical Board for Saturday, Dec. 14, at M. A. C. The State Oratorical Contest is this year to be held at Olivet, and this meeting is called to determine who shall act as judges, and also to consider any other matters which may come before the Board at that time.

Prof. Pettit and Mr. Patton were among those who attended the Hort. meeting in Ludington last week.

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