SPECIAL STUDIES FOR YOUNG WOMEN
AT M. A. C.

MARY A. MAYO.

Since the inception of Michigan Agricultural College a few young women have been in attendance each year. As there has been no special course for them, they have bravely taken what was offered; pursued the regular curriculum, with slight exceptions, and graduated with honors.

There has been a sentiment among the farmers, groups of whom meet each year, that the College should offer to their daughters just as good a chance for a practical education as to their sons.

The scope of the College has been and is to give to young men such a practical education as shall be the means of helping them to meet life and its work and meet it successfully. Just such an education has been desired for young women.

The return of the Board at its last session, in planning for such a course, has fulfilled the wishes of many of the farmers, provided a branching off point of advantage of our new; and added, we believe, to its increased prosperity.

What shall be the special work for the young woman who may accept the advantages offered?

We believe that Abbot Hall as designated by the Board should be a house for them, where a home life as happily as possible would be followed with a competent master who shall teach them how to become strong, wise, broad-minded women.

In this house they will be prepared to meet those they come for the purpose of taking advantage of our superior educational advantages, and after completing their studies they will return to their native countries.

Painting, vocal and instrumental music, should be elective. The need is that all shall be practical, with one idea of fitting them for life by teaching them how to live. Education is not a pouring in, but an ability to apply it to any of the practical concerns of life that they have to meet.

One form of knowledge, aside from personal gratification is useless. Let our girls have a well developed mind, a strong body, every faculty trained to its best, a firm will and a skilled hand. In the pursuit of this, wherever the work can be placed, coupled with a moral nature whose love of right and justice, and adherence to all that is highest and holiest, gives to womanhood its drowning glory.

Mary A. Mayo.

FOREIGN STUDENTS AT M. A. C.

At present not less than six European and Asiatic countries have representatives at M. A. C. Most of the young men who are here from foreign countries have come to this institution taking advantage of our superior educational advantages, and after completing their studies they will return to their native countries.

There have been a few students who have come for a little while to improve themselves and, after completing their course of study here, will return to their country for useful work.

Herman Nelson is from Christians, Norway, a graduate of the Christians high school in '91. He entered our mechanical course at the opening of the present term.

Harutroo Karnamian is an Armenian and a graduate of the Athens college near Conanstintople, class of '91. He has come to America to improve himself and, after completing his course of study here, will return to his country for useful work.

He became a student in our agricultural course at the beginning of this term.

WHAT NOW SHALL BE DONE WITH OUR FORESTS?

ARBOR-DAY ADDRESS BY DR. W. J. BEAL.

[Concluded.]

Numerous notices for the press of the State would have been more highly appreciated.

In Fig. 1 the ball is tangent to its bearing at points A and E. Since the circumference of the ball, EF and CG perpendicular to AB and BD respectively, the frustrum EFGC will have pure rolling contact with its bearing.

In Fig. 2 the ball is tangent to its bearing at points B and C. The two frustra referred to, the ball, and the axis being parallel, will roll without slipping on the same plane, since the vertex at O and therefore the frustum EFGC will roll on the frustum EDCD. The bases CD and EF of both frustums are perpendicular respectively with the frustums and KL. Since the circumference of the surface of the ball, the axis will have the same motion, and the two frustra referred to, the ball will have pure rolling contact at both E and B.

The cone shown in Fig. 1. The base of the ball will have pure rolling contact with the wall, as will appear if planes are passed perpendicular to the axes AB and CD. These planes cut off circles.
Two Points in the said Brass Rod, the Brass being at the Temperature of Sixty-Two Degrees Fahrenheit, Thermometer, shall be and the same is hereby demonstrated the said Brass Rod.

Section III of the same act provides for the replace-ment of the rod in case of destruction or injury. This was certainly a wise provision, for the first ten years after this it was unable to be foreseen. It was replaced by comparison with five other standards. Its dimensions are, length 35 in., width 1 in., depth 1 in. Composition, copper 19, tin 21, zinc 1.

There is still another natural unit which has been suggested for a standard. It is the length of a ray of light. This unit could be applied upon for small measurements, but for a practical standard of length, the multiplication of such minute units might produce errors in the total results. It is likely to occur from any of the other methods spoken of.

Prof. Holdsworth's father is making him a visit.

The diagram JIK shows JI, JK and KI as representing the amount of sliding for each rotation is equal to the difference between the circumferences of circles CG and EK. At F this difference is equal to the difference between the circumferences of circles DH and FI, multiplied by the ratio jjf.

The diagram between Paris and Amiens.

The Michigan Engineer's Annual for '96, just published, contains some of the papers of the recently published conclusions of Birkeland, regarding corn smut. Seven plots of corn have been planted for this purpose.

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yield a surplus. Butter was a poor article and rejected by the stores. Now the quality of the butter is so good that some of it is exported. The city of Boston is a big buyer of Michigan butter. Fruit raising was carried on before without spraying and at a loss. Now the farmers are treating their orchards intelligently and reaping the consequent reward.

AS OTHERS SEE US.

June 3, 1896.

THE M. A. C. RECORD.

J. A. Elliot, humorous editor; C. D. Butterfield, local editor; S. H. Fulton, historical editor; F. W. Kramer, illustrator.

At the opening chapel exercise President Snyder read the above letter, commenting upon which he said that pleased him to have the boys play winning ball, but while they had not always won he was very glad they had at all times shown themselves to be gentlemen.

As Others See Us.

The regular meeting of the American Society of Mechanical Engineers was held May 29th to 22nd in St. Louis, Mo. Among the papers presented were possibly those of paramount interest to the readers of the Record as follows:

"Strength of Cast Iron," by Mr. Wm. J. Keep, Deôtel, Mich.; Mr. Keep has for several years been carrying on experiments with cast iron, to determine if possible the relation between the physical and the chemical attributes. The strength of cast iron is so variable with different mixtures of coke, sizes of casting and conditions of pouring, as to have driven the engineer to strengthen his work by using either wrought iron or steel, or as an excessive factor of safety if cast iron is used.

"The Efficiency of a Steam Boiler. What is It?" by Prof. Carpenter, of Chicago, III. Prof. Carpenter presented a long article in which he states the opinions of authorities on the subject and treats the technical side of the question. In his summary he places the gain by superheat between 10 and 30 per cent, averaging about 25 per cent. In conclusion he asserts that "today is the greatest of all problems presented the designing and constructing engineer, with the possible exception of that of finding a system of effectively rendering the interior of the working cylinder non-conducting.

President Snyder opened the grand parlor of the Southern Hotel, and that quiet might obtain, the adjoining street was corded with tanbark to deaden the clatter on the pavements. Every possible attention was paid to the comfort of the visiting members. Excursions were arranged for the ladies of the party during the professional sessions and excursions for the entire party were made, one over the city by trolley cars to the Edwardian Brewery, where in addition to showing the visitors the various departments of the plant, the owner set forth a summary of the services rendered.

"Hollow Steel Forgings," by Mr. H. F. J. Porter, of Chicago, III. Mr. Porter described the process of making hollow steel forgings as practiced by the Bethlehem Iron Works of Pennsylvania, and illustrated the processes with a stereopticon. The process in brief is to cast an ingot, then bore or punch out the core where impurities gather, then insert a spindle or internal arbor and forge under a very heavy hammer or hydraulic press.

The local committee on entertainment made the occasion one long to be remembered. The sessions were held in the grand parlor of the Southern Hotel, and that quiet might obtain, the adjoining street was corded with tanbark to deaden the clatter on the pavement. Every possible attention was paid to the comfort of the visiting members. Excursions were arranged for the ladies of the party during the professional sessions and excursions for the entire party were made, one over the city by trolley cars to the Edwardian Brewery, where in addition to showing the visitors the various departments of the plant, the owner set forth a summary of the services rendered.

"Superheated Steam," by Dr. R. H. Thurston, of Ithaca, N. Y. Prof. Thurston presented a long article in which he states the opinions of authorities on the subject and treats the technical side of the question. In his summary he places the gain by superheat between 10 and 30 per cent, averaging about 25 per cent. In conclusion he asserts that "today is the greatest of all problems presented the designing and constructing engineer, with the possible exception of that of finding a system of effectively rendering the interior of the working cylinder non-conducting.

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CHICAGO.

Dishes Rented

F. w. L. SHANK & CO.,

Gents' Clothes Cleaned, Dyed, Bound, Relined, Relutioned, and General Repairing Done on Short Notice

One of the largest contributors to the literature of mechanical engineering. The calorimeter described has been in use for about a year in the laboratories of Sibley College, for determining the quality of steam. The accuracy of the instrument was discussed and conclusions regarding the accuracy of calorimetric practice were drawn by the author from his experience.

"The Efficiency of a Steam Boiler. What is It?" by Wm. W. Dean, at the Detroit meeting, criticising the society's proceedings, said:

"The objects thus determined whether his boiler is working to its standard code of reporting boiler trials. The objects of his work were to determine whether his boiler is working to its standard code of reporting boiler trials.

Note that Martin also made hollow steel forgings as practised by the Bethlehem Iron Works of Pennsylvania, and illustrated the processes with a stereopticon. The process in brief is to cast an ingot, then bore or punch out the core where impurities gather, then insert a spindle or internal arbor and forge under a very heavy hammer or hydraulic press.

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FRED SHUBEL.

Pressing and Repair Work.
We gratefully acknowledge the reception of a copy of THE SPECULUM, the magazine of the Michigan Agricultural College, made to the Superintendent of Public Instruction of the State of Michigan by the Board of Visitors for 1896. Messrs. E. S. Howatt, Editor of Lansing, and B. M. Butler, of Jackson, and F. H. Stone, of Hillsdale. The committee has been earnest, conscientious, and deliberate in its work, and the report, an able, impartial, and thoroughgoing one, should be read by every citizen of the State.

With this issue THE RECORD makes its bow to a new reader. Addressed to all, it is sent to you as will prepare the student for appreciating and understanding the influence and activities at work at the College; that this will be their vocation whatever avocation they may have, and that the education which will best fit them for the active duties of life is the education they have learned to be guided by. It is thoroughly practical throughout.

No. 4—

The leading editorial contained the words: "The SPECULUM is not an advertisement of the Agricultural College but an organ of the College, organized and entirely controlled by them—in the hands of five so-called—Natural History, Delta Tau Delta, Phi Delta Theta. This general characteristic of THE SPECULUM will be a reflection of the institution of which it is the organ. It is strictly a College publication for you, and for you, the alumni, THE SPECULUM would never have had an existence."

DOES IT PAY TO GET A GOOD EDUCATION?

In numerous instances we have heard people who had not enjoyed the privileges of high school and college take the ground that it was not worth while for a young man to undertake a good education. It is very much easier to find excuses for dropping out of school than it is to secure money and courage to complete a hard course of study.

We give some of the objections that have been heard and venture some brief comments on the other side of the question. If one is in a great hurry to marry, and has a farm to manage, he can acquire a good education. It is very much easier to find excuses for dropping out of school than it is to secure money and courage to complete a hard course of study.

1. "So I an education as our fathers had is good enough for their children.

But this is a progressive age and to keep up with the best we ought to possess more knowledge, greater mental strength, and manual skill than our parents were able to acquire when at our age. Most parents work hard that their children may enjoy greater advantages than they themselves enjoyed when young.

2. "If I am going to be a farmer or mechanic, the best way is to learn the business at once; to begin to learn the trade and earn something as I go along."

M. A. C. is unlike the old-style college, however good that might be. The training does not consist merely in knowledge gained from text books and lectures, but the course is made practical in an eminent degree by many hours of work in laboratory and shop, on the farm or in the orchard.

3. "If one is in a great hurry to marry, and has a farm to manage, he can acquire a good education."

Many good examples are on record at M. A. C. where persons at least 30 years old took a course of study and thereby largely improved their chances for successful farming, and money and time were saved.

4. "I am now too old to begin."

The records of many years past fully show that only one cent or more of those who, taking no course in college, were able to acquire when at our age. Most parents work hard that their children may enjoy greater advantages than they themselves enjoyed when young.

A FEW EYE DON'TS.

Don't allow a cold wind to strike the eyes.

Don't strain the eyes by reading, sewing or any like work.

Don't expect to get another pair of eyes when these are gone.

Don't sleep opposite a window in such manner that a strong light will strike the eyes on awakening.

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Don't sleep opposite a window in such manner that a strong light will strike the eyes on awakening.

Don't try to do eyework with the light shining in your face.

The opinion of those who have not attempted such a course should not be worth as much as that of graduates who have experienced both sides of this question.

As previously stated, at M. A. C. one learns much of the trade of a farmer or mechanical engineer while engaged in scientific studies. The following, which are worthy of a place among the declerations of purposes of every person who is pursing a course of study or who cares much for the enjoyment of clear vision:

Don't try to do eyework with the light shining in your face.

Don't allow a cold wind to strike the eyes.

Don't strain the eyes by reading, sewing or any like occupation with an imperfect light.

Don't look into a furnace or a fire, or light a candle in a dark room.

Don't open the eyes under water in hiking, especially in salt water.

Don't look at a sunbeam, or any thing that comes near the eye, either by looking directly into the sun or by looking at a bright thing in the distance.

Don't strain the eyes by reading, sewing or any like occupation with an imperfect light.

Don't look into a furnace or a fire, or light a candle in a dark room.
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The Farm Department

For sale the following head of live stock:

A Yearling Shorthorn Bull, out of Mysie 3rd, and by the prize winning Volunteer, 101260, a pure Cruikshank.

The Thoroughbred Jersey Bull, Rottas Averooes, 35119, bred by G. A. Watkins, Detroit, sold color, 4 years old. This bull is by Averooes who was a son of Matilda 4th and by Ida's Rister of St. Lambert. His dam was Retta of Bloomfield (29290) who was by the famous bull Ramapo. No better bred Jersey bull exists today in the state.

Three Holstein bull calves, three months old or younger, all by Maurice Clothilde and out of the selected cows Oatka 3rd's Wayne, College Houtje and College Pauline Wayne.

Owing to the crowded conditions of the stables these animals will be sold cheap.

Nine Yearling Shropshire Rams out of thoroughbred ewes and by a prize Shropshire ram.

Poland China and Durcon Jersey Pigs of both sexes.

These Animals will be registered, transferred and placed on board cars at Lansing, receipt of price, which will be given on application to

CLINTON D. SMITH, Director and Superintendent of Farm,

AGRICULTURAL COLLEGE, MICH.

THE MAPES CLOTHING CO.

207 & 209 WASHINGTON AVE., S.

When young men's fancy lightly turns to thoughts of duck trousers, vacations, and all that sort of sunshine loveliness, he should direct his steps towards our store, where we make a specialty of

MID-SUMMER CLOTHING AND BICYCLE SUITS.
DISFIGURING FENCES WITH ADVERTISEMENTS.

We have become so accustomed to seeing advertisements on the fences by the roadside, that doubtless some of the artists have begun to think that this is one of the excuses for building a fence. Read the following:

"Apropos to the remarks recently made in these columns concerning the lack of respect that advertisers have for the rights of the public in placing their great unsightly signs in what would otherwise be attractive landscapes, we find the following in a California paper: Riverside is making war on signs posted conspicuously about the city, and Marshal Wilson has a man employed whose sole work is to report against offenders of the ordinance and tear down signs. A rustling agent from Los Angeles was energetically engaged in posting bills of his firm on fences, vacant building, etc., when ordered to desist, but failing to heed the officer, was hauled up before the authorities and fined $20."—Michigan Cyclist.

SHORTENING DISTANCES.

"The home of the writer is three miles from the post-office. There was a time when it required an hour to make this distance with a small load. The sand was deep and horses were compelled to exert their full strength constantly on the way. The road was impassable and the time of transit was cut in two. The electric car came and cut the time in two again.

"The same spirit of improvement must reach farther than the suburbs. To think that this is one of the columns concerning the lack of respect that advertisers have for the public in placing their great unsightly signs in what would otherwise be attractive landscapes, we find the following in a California paper: Riverside is making war on signs posted conspicuously about the city, and Marshal Wilson has a man employed whose sole work is to report against offenders of the ordinance and tear down signs. A rustling agent from Los Angeles was energetically engaged in posting bills of his firm on fences, vacant building, etc., when ordered to desist, but failing to heed the officer, was hauled up before the authorities and fined $20."—Michigan Cyclist.

CHAS. A. PIELLA, DIAMONDS, WATCHES, CLOCKS REPAIRING OF FINE WATCHES AND JEWELRY A SPECIALTY.

NICE LINE PLAIN AND STRIPED DUCK TROUSERS

From $1.50 to $3.00 per pair.

WOULD LIKE TO SHOW YOU SOME EXTRA VALUES IN MEN’S SUMMER UNDERWEAR

You never saw the equal of the Shirts and Drawers I offer at 50c. You never saw the equal of the Shirts and Drawers I offer at 50c. You never saw the equal of the Shirts and Drawers I offer at 50c.

CLAIM TO LEAD in the way of Natty Negligee Shirts, and show the only line in this city with "up-to-date" collars.

ELGIN MIFFLIN.

Jessop & Son, FINE SHOES AND RUBBER GOODS

GENERAL OFFICES:

74 Cortlandt Street, New York.
Michigan State Agricultural College

Fifteen minutes from Lansing by electric car line.

For pleasant and healthful surroundings, completeness of equipment and ability of teaching force it is unsurpassed in the country.

Three Courses of Study

OF FOUR YEARS EACH

Agricultural,
Mechanical,
Women's Course.

FOUR SPECIAL COURSES given during the winter in the following: DAIRY HUSBANDRY, LIVESTOCK HUSBANDRY, FRUIT CULTURE, FLORICULTURE and WINTER VEGETABLE GARDENING.

This college offers to young people an education which is thoroughly in line with the progress and achievements of the age in which we live; no time is spent on the dead languages or such other studies as have little practical value. The aim is to give the maximum amount of mental development and at the same time to train young men and women for the respective positions which they will occupy in the work of life.

In Ten Well Equipped Laboratories students have unsurpassed advantages for the study of the SCIENCES, MATHEMATICS, LITERATURE, HISTORY, and other subjects are also taught by the latest and most approved methods.

The College is a community by itself and is patronized principally by students who come from families of moderate or average circumstances. There are very few inducements offered for an unnecessary expenditure of money. All are on the same level, and with very few exceptions, are honest, honorable, well-behaved students.

To residents of the state the tuition is free, room rent very low and board at actual cost. Many students earn part of expenses by working odd hours on the farm.

For catalogue or other information, address

J. L. SNYDER, President.