What use can the student make of the library? It offers to all students the privilege of selecting volumes. For four years this privilege is his, without additional expense. What use should he make of it?

He should regard this as an opportunity which he cannot afford to slight or to waste. In order to get most benefit from it, he should have both purpose and plan. It would not be wise for him to allow the value of the opportunity, and plan, to have a working method for making the best use of the opportunities. He should have a list of reference books on his room, rather than to draw of books from the library, one at a time, and on his own table. Therefore I should recommend the convenience as well as a saving of time to have the book on his own table.

Something has been said of reading as a pleasure. It may surely, a pleasure if it is to accomplish its mission, and it proves to be pleasurable, the attempt to form the reading habit will certainly result in failure. Therefore, one essential step in the formation of the reading habit is to find, for each, a particular class of reading which will afford pleasure. What one enjoys another may not, but there are surely enough kinds of good, helpful reading waiting to be used to furnish something to suit the taste of every thoughtful person who cares to read.

A FEW CLASSES OF HELPFUL READING.

Perhaps it would not be out of place to suggest here a few classes of reading matter which are useful.

A FEW CLASSES OF HELPFUL READING.

More and Better Use of the Library.

DYNAMOMETER TESTS.

A great number of helpful reading are passed on Prof. Hedrick.

In conclusion I would say to every student: Resolve to make the best use you can of the Library. Select your reading with care, and pursue it with determination. I cannot say it too often, but try also to know what is good. Utilize spare moments, rest at times from a taxing lesson, and have a good book always on your table ready to be picked up whenever opportunity may offer. A college course supplemented by the careful reading of even twenty well selected books is as advantageous in the same course supplemented by a sparsely, fragmentary, inapparent reading.

A dynamometer is simply an appliance for measuring. A spring balance is a dynamometer, but for measuring the varying force exerted in pulling a load there must also be a registering apparatus to give a record of the work done. The force with which a man exerts a load is an indispensable factor in determining the work done. The dynamometer registers this. The amount of different forms of the important facts which may be ascertained by the use of the dynamometer. A dynamometer is simply an appliance for measuring force. A spring balance is a dynamometer, but for measuring the varying force exerted in pulling a load there must also be a registering apparatus to give a record of the work done. The force with which a man exerts a load is an indispensable factor in determining the work done. The dynamometer registers this. The amount of different forms of the important facts which may be ascertained by the use of the dynamometer.
Last week, instead of running off a large heat to test new pig iron, the mechanical department tried successively the experiment of running of a small test bar from the mold. The iron has been very good.

Miss Elizabeth Hedrick, sister of Prof. W. O. Hedrick, and Miss Margaret Crosby, cousin of D. J. Crosby, both of Harbor Springs, have been spending a week at the Coll.

The largest puff ball ever seen at M. A. C. was found on the farm last Wednesday, and is now in the botanical laboratory. It weighs 7 pounds 10 ounces, with a circumference of 45 inches and a height of 9 inches.

The Y. W. C. A. holds its regular weekly meetings on Wednesday evenings, and the hour has been fixed at 7 o'clock. The questions expected to be taken up at the next meeting are:

1. How can we make use of our time in and after school so as to be helpful to those around us?
2. How can we make the most of the opportunities presented to us?
four and six horse teams on the farm.

Above is the title of a thesis for the degree of Master of Agriculture presented by E. D. True of Amana, Mich., of the class of '78. The paper is based on the experience in the use of horse teams, and is so timely and practical that we present herewith an abstract for readers of the RECORD. At the present time, when farm labor is high, the price of horses low, and the price of farm products extremely low, anything that will enable the farmer to utilize horse power to a greater extent and dispense with some of his hired help, is of the utmost interest of economy, and this Mr. True shows can be done by the use of four and six horse teams for a large portion of the farm labor.

Our first systematic use, he says, of four horses began before the general introduction of the spring-tooth harrow, when the wheel-cultivator was almost universal for working up the fields for fall plowing. Cultivating was such heavy work that when the ground was at all hard the horses were obliged to run on the ends of their feet, and one cultivator and man had to stand right much of the time while the horses were working. We undertook to remount this, by hitching a spring tooth harrow, a pole of the cultivator and found as a result that the work was thoroughly done, while one man cultivator and four horses would cultivate as much as two men and two horses could do when the ground was soft. From that time forward we always did with our cultivating and horses. Our next step was to cultivate two rows at a time and try four horses on them. Two harrows, however, when coupled together, proved to draw much harder than when separate. So with both the same and different sizes, we found the smaller size not overlapping the bounds of productivity, we applied six horses abreast, with such satisfactory result that six horses abreast became thereafter a regular size to use. Though two together drew harder than when separate, the work was so much more effectively done that we consider the six abreast the true size of form work. After this, we experimented with various combinations of tools, as for instance a roller with a harrow hitched behind. Finally we purchased a gang plow which turns two harrows and requires six horses, and found it equally effective, and one man plows four acres a day.

The use of such large teams is not to be undertaken without forethought. A man cannot nowadays manage two runaway horses, much less half a dozen, and the danger in a general run of conveyances is about the same. In the use of large teams in lowish pastures we find it necessary to have a proper driver, one that is not to be brought back suddenly by a sharp pull, but gradually by an easy curve. One of the first requisites is to have a good well-bred horse, large, large, and large, large, that makes his frantic, flying leaps over the white snow, and knocked the dew out of the cobwebs in the grass, have you ever thought how they would look in a picture? Mr. Gibson has shown you. Few of us, even the enthusiastic botanist, take our walks into the midnight in the heart of the woods, especially in winter time. But when you see some of the artist's rough sketches of the various species of trees, con­

William Hamilton Gibson.

Within the past few weeks America has lost from among her artists two of the most remarkable workers in "black and white" that she has yet produced. William Hamilton Gibson, of the class of '78, was the first to be lost, and his loss is felt with a keen and ever-watchful observer of nature. He never tried to drive with nothing else to hold him together. This is unsafe, however, as the driver is apt suddenly to pull the wrong reins and drive the two teams apart, and produce the same result. The handling of the lines is easily learned with a little practice, though for wide teams certain modifications of the ordinary form of lines are necessary. Mr. True gives various illustrations of lines of towning, of whiffletrees and neckyokes for use with large teams, and of the various farm implements. In conclusion he recommends the more frequent use of four horse teams on the road, a practice seldom seen in this state, but common in some parts of the east and in certain foreign countries.

OCTOBER

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The M. A. C. RECORD.

OCTOBER 6, 1896.

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BARRY EDMUND SMITH.

The subject of our sketch was born twenty-eight years ago in North Lansing where he now resides with his mother. Through the loss of his father at this early age, the care of the home gradually devolved on the youth as he grew older. But here, as in every community, evils do develop on the youth as he grew older. He incorporate into his mind knowledge imparted by the students, by religious exercises, and by christian as- 

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ON THE RIVER.

[By R. Barlow, ’99, in Freshman Rhetoric.]

Two summers ago we were rafting lumber down Flat River from Waterman's mill to Greenville; a distance of about five miles. The country through which the river flows was once covered with pine, but it was cut long ago, and the thin, sandy soil nourishes the farmer's struggling wheat or stands with only the stumps and stubs to remind us what it once was.

But the river valley itself is quite different, it is a strip of greenest verdure winding through a gray level tract. From our raft, however, nothing could be seen but the dense woods on either side and a strip of blue sky above. The forest rises in solid ranks—silver maple, ash, elm, linden, and all those trees that love a river bank. Most of the way the great trees crowd close to the brink, but in places there are marshy meadows of coarse grasses and rank sedges, bordered with alders and willows and dogwood.

In places the wild grape grows down large trees with its luxuriant masses of growth, or on sunny banks the wild morning glory spreads its spread over the bushes. The humming bird darts here and there, peising before the cardinal flowers, whose intense red almost rivals him in flashing breast. There are a hundred bright flowers, of different kinds, a hundred wild birds; the fish dart in the water below, the trees overhang on either side and the sun-pom poms down the stream. It is altogether a beautiful haunt of nature and I hope I may see it again.

Prof. (in literature.)—Why are such works as Homer, Virgil, etc., called classics?

Bright One.—Because they are enough to make any class sick. — B.

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A Yearling Shorthorn Bull, out of Mysie 3rd, and by the prize winning Volunteer, 101205, a pure Crinklshank.

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Three Holstein bull calves, three months old or younger, all by Maurice Clothilde and out of the selected cows Oatka 3rd's Wayne, College Howe't 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 Duroc Jersey Pigs of both sexes.

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

Clinton D. Smith,
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AGRICULTURAL COLLEGE, MICH.

October 6, 1896.

X 6 THE M. A. C. RECORD.
NEWS FROM GRADUATES AND STUDENTS.

M. W. Sturm, with '96, is teaching at Plat Rock.

V. S. Hillyer, '95, has sent for his standings at M. A. C., to be used in entering the Michigan mining school this fall.

Leander Burnett, '92, R. L. Reynolds, '96, and M. G. Kains, '76, are planning a visit to M. A. C. next June, when the triennial reunion is held at that time.

Guy Baldwin, with '96, is at Cornell taking work in electrical engineering. Though he spent but five terms at M. A. C., he thinks it the finest place on earth.

K. L. Reynolds, '96, and Leonarde Burnett, '92, have entered the senior class at Cornell for advanced work in electrical engineering. They room together at 75 East Buffalo street, and have a climb of about 400 feet before they light on the level of the campus.

The Record comes on Friday evenings and everything is dropped until the items under "At the College," and "News from Graduates" are devoured. I see not even the most casual of our alumni can exist without its Record.—M. G. Kains.

L. H. Bailey, '92, professor of horticulture in Cornell University, has just issued a bulletin on "Suggestions for the Planting of Shrubs." It is designed to give "suggestions for the betterment of home grounds in rural communities," and contains nearly thirty excellent illustrative cuts and drawings. The text contains not only general hints about planting, but specific descriptions of well ordered home yards; and is a valuable little work to place in the reach of the husbandman.

FILING SCRAPS.

M. G. Kains, '95.

In answer to the article entitled "Keep a Scrap Book," quoted in the Record of Sept. 22, I wish to offer two other methods of filing newspaper clippings. A scrap book is certainly a good thing when only a few clippings are made, or when kept only for the "Fun of it," but when kept for practical purposes there is hardly a more effectual way of burying information. The article wanted must be searched for among a heterogeneous mass of disjointed sundries; time is lost.

The first method is by means of envelopes in a portfolio scrap book. This is made by binding a number of strong manilla envelopes in book form, with their flaps on the outside or at the top. Each envelope is for clippings of a particular class, and are numbered and indexed. When necessary they are folded so as to show the head-line of the article. The topic, name, and the number of the envelope are written on the outside, and indexed both by topic and number. To get a desired clipping, all that is necessary is to hunt up the envelope by number and look over the papers inside.

The second method is even better. The clippings are carefully arranged according to topic, and are pasted on sheets of common yellow paper of any desired size. Eight by ten and one-half inches is a standard size and more convenient than if larger. These sheets are carefully arranged according to topic and are pasted on manilla folders labeled on the outside and arranged in alphabetical order. The method is the same as for dried plants in an herbarium. The great advantage of this method is expenditure of time in hunting up desired articles. In this respect it is superior to either the scrap book or the envelope portfolio.

Often the student will meet with an article he cannot cut out. In such a case an abstract is considered perfectly correct.

If I have not made the matter clear with regard to filing, I am sorry. 104—Washington Ave. North—104

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