The Sophomore-Freshman Scrap.

The freshmen held a class-meet- ing on Tuesday morning at 12:10. Now a freshman class-meeting, just at this season, is usually an affair of some consequence, and this meeting was no exception.

There were offers to elect, colors to adopt, a yell to be learned; and not half of these things had been done when it came time to adjourn for 1 o'clock class. A yell had been adopted, and were punctuating it around passed to members of the class; a president had been elected—F. M. Murphey, likewise a first and second vice president—Miss Loa Travis and H. G. Driskel, when—

"Rah, Rah, Rah; Roo, Roo, Roo.
Zip come a razoo.
Jimmy blow your buzzo,
Class of 'Naughty-two.'"

The sophomores outside were giving the yell the freshmen had just adopted, and were punctuating it with "Naughty-two! Naughty-two!"

The freshmen had given their yell away. A hurried adjournment followed and the freshmen scattered to their rooms or to the basement of the agricultural laboratory to compose their own yell. Down the walk they started toward Wels Hall, shouting lines, "Naughty two! Naughty two!"

Mr. Snyder appeared, reminded the members of both classes who had come calling that "scrap." The freshmen started to the "scrap." The two boys that they had missed half an hour in pursuit. The freshman went in and a fraction pounds of butter.

"Naughty-two! Naughty-two!"
It was a cry for help from a freshman, and yelling at each other.

The Kalamazoo correspondence in the Sunday Free Press contains the following item of interest to all colleges in the M. I. A.:

A football championship cup.

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practitioners as well as a large number of graduated men. It is the largest establishment of the kind in the world. Here we find no great animal products are needed to be injected into the horse. The antitoxin for diphtheria was discovered by Prof. Behring, of Germany, after many years of patient investigation. Behring discovered that the blood serum of an "immunized" animal protected the horse from an antitoxin effect upon other animals suffering from diphtheria. The idea harmonized with Pasteur's belief old that it would be possible by vaccination to make any contaminated animal safe against the toxin. Behring proved that something is formed by the tissues of the infected animal, which enables that body to ward off the invasion of disease-producing germs or which destroys them after they have gained an entrance; and that the immunity of one animal can be taken and transferred to another. This something is found in the watery part or serum of the blood.

In the production of anti-diphtheric serum, they first of all require living germs. They get some of these from persons suffering from diphtheria. The culture is prepared. In another department, the germs are planted in flasks of beef broth, which are placed in an incubator at a temperature of 93°F., where they grow very rapidly, from seven to fourteen days. This liquid filtered fluid is then subjected to the pressure of a rubber cincture, which takes out all the bacteria present and leaves the clear transparent fluid which contains the poison that the germs secreted during its growth. This latter substance is known as antitoxin fluid. It is able to withstand large quantities of toxins and in effect it resembles a poison which gradually increasing the dose is able to withstand a poison which would ordinarily kill another individual in a short time. At this stage blood is drawn from the jugular vein, into tanks, and these placed in a refrigerator. After some hours these contracts and squeezes out a clear, watery, straw-colored serum, which contains the antitoxin.

The figures from the last published report of Harper Hospital of Detroit for 1897 show that mortality from diphtheria for that year was 3.6 per cent; previously to the introduction of the toxin to the American public, the rate was 4.5 per cent. The same showing is said to be made by hospitals throughout America and Europe, and in private practice as well.

At the time of the first trials of antitoxin for diphtheria, hopes were expressed that it should be successful the principal might be extended to other diseases. Although it is not known just what the final outcome may be, we saw horses under "immunization" for yellow fever, leprosy, ulcer, tuberculosis, and bone and blood poisoning, and the time may come when these diseases will be successfully treated as is diphtheria at the present time.

Electrical Engineering as a Profession.

ALLAN H. STONE, HEBREWS SOCIETY.

One of the questions which concern the young men engaging in electrical engineering, which must be answered sooner or later is, what occupation shall I take? Among all which I may make the greatest success in life? For some this is a matter easily settled. They have friends or relatives who have a well-established business into which they will be taken as soon as they have completed their education. Others may have unusual possibilities the avenues to the great majority—those whose parents can do nothing for them but fit a suitable position, it is a matter of grave importance. In making such a decision things should be considered in mind; what line of work am I best adapted for, and what will bring the greatest returns for the time and money expended.

Because of the rapidly increasing use of electrical appliances a very large number of young men have decided that electrical engineering is the profession for them, and as early as this have offered the most promising openings for successful business. Let us consider briefly the chances for success in an electrical engineer.

Considering how recently electricity is considered a profession, there are few positions where they worked for half a day. The business is constantly being made more simple, so that it can be operated by persons whom a student in electrical engineering never fails to get a job in his profession, when if he did not have this he would not have been able to secure the position.

An Apple Canker.

Last spring I began investigating the cause of the so-called apple canker. This disease attacks the bark of the larger limbs, where all stages of development may be seen from small sunken areas to the large cankers of many inches extent. In aggregates, the bark is split or lifted, and the wood is laid bare. The bark becomes swollen and rough in all directions, while the diseased limbs become quite conspicuous. These wounds produce an effect similar to girdling, and where many limbs are girdled the tree is usually killed. In places where these wounds do not go beyond the outer layers of the bark the disease remains local, but in the other they penetrate the tree. In the canker, the spores of Sclerotium communi are formed. Inoculations were made with both forms on apple seedlings in the nur-
sery and on limbs of an apple tree. In two weeks' time it was found that in every case inoculations made from brown spores on dark spores had taken effect, while the Sclero-
pyllum had in no instance made any growth on the bark of check trees healed over at once. More inoculations were now made and the results have been the same. At this time, October 31st, several of the seedlings are nearly girdled with wounds three to four inches in length. The inocu-
lations on the limbs of apple trees have made an equally satisfactory growth, laying bare the wood and producing the dead, sunken areas of bark characteristic of the disease. We have as usual found the fungus with the dark spores was para-
colic, diligent search was made for those of the black rot of the apple, Sphaeropsis malo-
rum, Peck. Mature apples from the test tubes. In twenty-four hours the canker had begun points of inoculation, and in 16 days pyclodia and mature spores of Spha-
eropsis were found on all inoculated apples. The check apples which were punctured but not inoculated remained sound. Further search for the dark spores on diseased bark revealed pyclodia just beneath the epidermis containing the mature brown spores and immature ones still attached. All characters were identical with Sphaeropsis on the fruit. These same pyclodia were subsequently found on bark of the nursery stock and apple-tree limbs where the inoculations were made. Pure cultures of Sphaeropsis malo-
rum from spores make the same growth on bean stems and bear fruit in exactly the same manner as the first cultures from which the inocu-
lations were made.

While it seems reasonably certain that this canker of the apple is caused by a well-known fungus in a hitherto unrecognized rôle, the re-
sult of a set of experiments now un-
der way is awaited to complete the chain of evidence. Seedlings placed in the greenhouse have been inoculated with pure cultures of Sphaer-
opsis malorum taken from affected apples. If these inoculations produce the so-called canker the identity of the disease will be established.

WENDELL A. PADDOCK, '93.

Science, October 28, 1898.

Pleasure Derived from the Realm of Fancy.

DEBORAH GARFIELD, THEMAN SO-
CIETY.

It is not alone from the real that we derive our enjoyment. Our capacity for happiness depends upon our in-
tellectual endowments, the vividness of our imagination, and the play of our fancies. What one of us since entering College, has not been impressed irreversibly in which our future has been robbed in all the glory that ambition and success can offer; and for the time being derived from such evenings in the future.

The M. A. C. Special Hat

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Costing from $8 to $6.

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between inner and outer soles. Keeps out dampness.

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PRICE, $3.50.

103 Washington Avenue So.
News from Graduates and Students.

D. M. Myers with '89 called at the College Thursday. His home is in Detroit, at 32 Grand River last week and expects to be here his way home from the Klondike.

Paul Woodworth with '90 is in Sainte when heard from last week and expects to be here this week.

F. Llewellyn Reynolds with '95 who graduated from the Michigan Mining School last August, is now working for a mining company in Delamar, Nevada.

Mr. and Mrs. D. W. Trine were on the campus Saturday afternoon. David deserted bachelor ranks seven years ago and has just finished his second year as pastor of the M. E. church at Gobies.

This week.


The Feronians were pleased to meet their fellow-member, Miss Bertha Malone with '90, in Society Friday. Miss Malone is making her mother a two weeks' visit in Lansing.

Dewey A. Sleeley '97 of the Weather Bureau has been transferred to Albany, N. Y. He will be married Tuesday evening of this week to Miss Edith Sellers and leave at once for his new home.

Arthur F. Kinman '85 stopped at the College last Thursday when on his campaign for a seat in Congress. Mr. Kinman has been promoted within a few months to the rank of first examiner in the U. S. Patent Office, Washington, D. C.

Hon. Henry Chamberlain, of Three Oaks, who was for many years a member of the State Board of Agriculture, is the Democratic nominee in the second district in Michigan for the Office of State Auditor. Mr. Chamberlain has recently been elected to the Board of Directors of the Second National Bank, of Battle Creek, Michigan.

The Literary Societies.

COLUMBIAN LITERARY SOCIETY.

The society was entertained Saturday evening, October 22, by the following programs:

Quotations from Webster were given at roll call.


Story—"A Strange Personal Experience," C. P. Reid.


Song—"This Art Likened to a Flower," I. Gingrich.

Reading—"You will never make it pay," Wm. A. Whitney.

Paper—"Review of the War, and Its Results," Wm. Treadwell. Mr. Rankin's talk on "Duck Hunting" was very interesting. He brought to our minds vivid pictures of the pleasures and hardships which accompany the lovers of the sport on their trips to the St. Clair Flats.

Mr. Treadwell's "Review of the War" was very complete and thoroughly enjoyed by all.

Fortunately for himself, the man who knows it all doesn't seem to know what other people think of him—Puck.

The Student's Talk.

Exam, Crank, Flunk, Trunk. — Ex.

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salle.

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