just now what the expenses will be, and will probably not be far from the $310. In past years the expense has run from $150 to $200, but much more was spent on costumes, decorations, etc., than ever before. It rather looks as though the circus had come to stay.

ENGINEERING THESIS SUBJECTS.


Design of Dam at Midlans, on Chippewa River.—Baldwin & Kurtz.

Study of Alignment and Grade of Pere Marquette R. R. from Grand Ledge to Williamston, with Suggestions for Improvement.—Brockway & Maxon.

A History of the Land Surveys of Michigan.—Benedit.

An Investigation of the Heating High Speed Stoves.—Bilswell & Tyler.

Investigation into the Possibilities of a New Dam on the Huron River at Milford, Mich., and the Design of Same.—Burkhardt & Hopkins.

Commercial Efficiency Test of Kerr Turbine (Steam).—Cataline & Norton.

Efficiency Test of Trams.—Cavanagh & Thome.

Comparison Test on the Nomberg Corliss Engine.—Cleveland & Angell.

Survey of Ingham County, Mich.—Dall & Farmer.

Economy Test of Corliss Engine at High Pressure.—Edwards & Koll.

Experimental Comparison of Leveling Instruments.—Egertson & Miller.

Heating and Ventilation of a Farm House.—Freeman.

Comparative Fuel Test upon Metts & Weiss Oil Engine.—Hallock & Hodgman.

Electric vs. Mechanical Power for Manufacturing Plant.—Hobbs & I. L. Shaw.

Location, Survey, and Estimate of Costs of an Electric Railway Connecting Kalamazoo, Richland, Goll Lake, Milo, Prairieville, and Dalton.—Hoffman & Newell.


Testing Paving Brick.—Qualitative Comparison of the Product from the Three States: Michigan, Ohio, and Indiana.—McLachlan & Snow.

Effect of Vacuum on Horse Power of Engines.—Meade & Moore.


Irremovable Cement Treated with Water Proofing Compounds.—Piper & Jordan.

Testing of 2400 Volt Alternator—Palling & Panitz.

PRACTICAL FORESTRY WORK.

The Junior Foresters will take up practical work during the coming summer months as follows:

New Mexico

Manzano, National Forest, Albuquerque.

1. Collingwood, G. H.

2. McKibben, C. W.

3. Wales, H. H.

4. Arkansas

Ozark National Forest, Harrison.

5. Goodrich, C. T.

6. Nichols, E. S.

7. Montana

Missoula National Forest, Missoulia.

8. Van Hornes, N.


11. Quat, F. R.


13. Wood, D. D.

14. Dingler, F.

15. Roper, H. H.

16. Campbell, J. F.

17. Koitez, M.

Pike National Forest, Denver.

18. McCutcheon, J. H.

19. Snow.

20. Wilson, F. G.

21. Lyttle, H. E.

22. Orton, H. C.

23. Sproul, W. J.

The work will be rough mapping and timber estimating, fire patrol, trail construction and improvement work. On forests where grazing is a feature the men will be called on to help handle cattle and sheep.

Y. M. C. A.

Several members of the association with Secretary C. W. Hayes of '97, who will not have a part of vacation work. The latter course was prepared by Mr. Martin, Aliegan county, and aided by the Hon. County Secretary Angell in the preparation of Mr. Gillman.

At this time it appears that the University of Illinois, and is destined to go on improving his excellent character.

The annual report of the association shows that 200 different men were enrolled in Bible study classes this year, 150 of this number containing two months or more. The course offered were, Studies in the Life of Christ, Life of Paul, Teachings of the Earlier Prophets, Social Science, Value of the Teachings of Jesus, and Literature of the Bible. The latter course was prepared by E. C. Lindeman.

Beginning with this term a personal work committee and class is to be formed, which will meet Sunday mornings at 8:40. On next Sunday evening at the union meeting Prof. Flagg will give a talk on the Up- lift of China.

Found. —A fountain pen. Owner will call at president's office and prove property.

ALUMNI.

W. F. Uhl, who for a number of years was chief hydraulic engineer with Allis Chalmers Co., of Milwaukee, has joined Mr. Charles T. Main, consulting engineer of Boston. For the past six months Mr. Uhl has been in charge of the electric construction in Montana. His address for some time will be Great Falls, Mont.

H. D. Severance, '93, who has been city engineer at Monterey, Cal., for several years, expects to take the degree of civil engineer at commencement in June, providing he can find time to complete a satisfactory thesis. One of the most serious jobs in connection with his work there has been the construction of a storm sewer system for the city.

H. M. Roose, '08, civil, is with the California Development Co., headquartered in Calexico. His present station is at Rositas Dam Camp. Mr. Roose is in charge of a field party locating and constructing a dam in the Alamo River in order to make use of what is now waste water in the distribution works of the Valley Irrigation System. He has been most happy in connection with the dam, and is now building a reinforced concrete spillway.
**ATHLETICS**

The cross country team did themselves proud at Holland, Saturday, winning first place with four of their boys schools contesting. The trophy, a beautiful bronze shield, will be awarded in the library. The completion is given by the business men of Holland, and will be contested for against next spring by the same schools. In addition to the trophy, Tillotson, who won first in the race, was awarded a solid gold watch, and each of the other members of the team received gold medals.

Teams of six men each made the start. M. A. C. won first with 39 points; Olivot, second with 58; Grand Rapids Y. M. C. A., third, with 75; Hope College, fourth, with 80, and Muskegon high school, fifth, with 80. M. A. C. team finished as follows: Tillotson, Perkins 4th, Warner 9th, Rosn 11th, Geib 14th.

**BASE BALL.**

The base ball schedule this year promises the most interesting ever offered at M. A. C. Of the state college will play all, but one game against our college, Alkalanna and Ypsilanti. Syracuse University, one of the strongest teams in the country, need not, however, feel a great deal of apprehension. These last two games will be played on Wednesday, Western Reserve University, on Thursday, and Ohio Wesleyan University, two strong Ohio Colleges come here for the first time. This will open our relations with that state.

The new bleachers, just completed, will give splendid accommodations to those attending the games. Prospects are good for the strongest team ever produced and it is expected this will be a banner year. On account of the good financial condition of the association the season tickets have been placed at such a figure that the entire college community can be well satisfied with the arrangement. Admission to all the important games will be $2.50, but to those who purchase the admission ticket a season ticket will be furnished for $1.25. To those who are not members the price will be $1.00 paid in advance and to the ladies, $1.00 will be charged.

**SILVICULTURE.**

A new plan of operation has been outlined for the junior forestry students at M. A. C. in this silvicultural course which is being given this term that will result in their securing some very practical knowledge and experience in silvicultural practices and principles. Each of the 24 junior foresters will be given a plot of ground four by four feet in dimensions, situated in the forest nursery south of the Cedar River. These plots will be marked off entirely by the students, who will make thorough notes on their work from beginning to completion. Fourteen different species of conifer will be planted in these seed beds, and the work of transplanting and sowing of beds, estimating the number of seeds planted, replanting all conditions until the planting, a complete count of the germinated seeds every two weeks, and exhaustive seedling study toward the end of the term. Considerable time will also be devoted to silviculural studies in the woods, in which experiences will be made and a study of the natural silviculural conditions as they exist there.

**ALUMNI.**

**'03.**

In a recent number of New England student G. Slevin has an interesting article on The Greater New England Reality. His subject is the possibility of profits and better methods in farming with advanced land values, and states that new methods of agriculture and new tages and new schemes introduced can be brought about. Speaking on the new interesting topic of co-operation he says:

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw. "

"One of the new problems of the new agriculture is to shorten the distance between the producer and the consumer."

"Our system of doing business is the most extravagant of civilized nations. Middlemen drive over the country selling goods and groceries or provisions to suit the whims of the consumer. Milk, eggs and other products of the country, producers, will help the situation materially. These are matters of a new agriculture of material significance to New England."

Daniel H. Ellis, '07, and Miss Ada C. Hoag were married March 28. At home by May 15. 216 Hoyt Ave, Saginaw, Mich. Mr. Ellis is Superintendent of Parks at Saginaw."
When You Buy a Cloth Suit, Wash Suit, Coat or Cape this Spring be Sure to Look for "The Garment Label with The Big Reputation" and you'll look for all that is high ideal in Man Tailored garments for women.

These garments are famed for their perfect fit—remember this: The Fit stays. No finer fitting suits can be made.

We are showing many splendid new styles on our popular Cloak and Suit floor this season.

Easy-buying-prices have been placed on all our Ladies Suits, that preach an eloquent sermon on money-saving opportunities for you.

THE F. N. ARBAUGH COMPANY

To the College Man:

We solicit your patronage, and offer for your inspection a carefully selected line of the latest furnishings. We make a study of your wants and have the goods you are looking for.

ELGIN MIFFlN

ABOUT THE CAMPUS

On next Saturday at two o'clock will take place the annual cross-country run.

The brush covering on the arbor in the gardens has been taken away and rails are being used instead.

A. M. Lynn, who was obliged to drop out of college before holiday, was absent from account of sickness, is again in class.

Rev. Goldsmith, of the Peoples' Church, East Lansing, will have charge of the chapel service next Sunday morning.

M. E. Carlton, of St. Clair, and O. G. Anderson, of Shelby, have returned to pursue their studies during the spring term.

Dr. Shafer was in Muncie, Ind., a day or two the past week, where he attended the wedding of his brother, R. W. Shafer, Jr. A.

Ben Ellis is a junior engineer, has returned to college for the spring term's work. Mr. Ellis has been engaged in railroad building in the Pan Handle, Texas, where he has acquired a healthy coat of tan.

Seems good to see "Bennie" with himself with soil conditions, varieties of drawing in the public schools. A goodly number of drawing teachers dropped out of college, and it is unwise to take them away from the subject of drawing in the public schools.

It is believed that no serious damage has been done to the fruit at the college by the frosts of April 6 and 7. The blossoms were not opened enough to be injured to any extent.

Wanted—Students in the advertising field, to cover their home towns, home counties, or any unsignaled territory during the summer vacation. From $20 to $25 weekly can be made. Address for particulars, H. A. Hopkins, Secretary Michigan Press Association, Saint Clair, Michigan.

Special bulletin No. 41 is now ready for distribution. This bulletin, the work of Professors Ruscock and Petit, aims to give methods of control of the more common insects and diseases of our brush and tree fruits. The bulletin gives the time each spray should be applied, what to use and what for. In addition to this, a composition of the various sprays and washes is given. The outlines are so plain that certainly no mistake should be made by those who attempt to follow them. The bulletin is comprehensive and in its pages will be found a wealth of information that is especially valuable to gardeners.

Mr. Herman Cook has been employed for the season to work in the gardens. His labor will be supplemented as usual by student labor.

The employment bureau of the Y. M. C. A. found work for forty-two different men, the past year, whose net earnings was $1,500.

Glen W. Ferris, of St. Louis, who left college at the close of the winter term, '10, has returned to continue his work. Mr. Ferris is a junior engineer.

"What will happen to the man who does not buy a Junior Annual" was shown to good advantage in the parade Saturday. Moral—Buy one and save your neck.

"COLLEGE SPECIAL" SHOES

Shoes that are especially made for college wear—stout, serviceable, sensible, with styles that are strictly up-to-date. Ladies’ and Gentleman's.

Sold only by

SHUBEI

SHOES

CYMNASIUM SHOES.
Try Our Electrical Shoe Repairing.

For Anything you may need in the HARDWARE LINE—try

NORTON'S HARDWARE

111 Wash. Ave. South.

COLLEGE BUS HEADQUARTERS

The M. A. C. RECORD.
CAMPUS NEWS.

The spring term party of the Eclectic's Society will be given on the evening of Saturday, April 30.

Miss Ellen Crawford of Cedar Rapids, Des Moines, is visiting over Sunday. Miss Crawford is a senior at the University of Michigan.

Some damage has been done to the banks in the gardens by musk-rats which wintered there. This is the first year they have remained in the garden all winter. Mr. F. H. Johnson, a student at the college, in 1882, was asked at the linotype meeting Wednesday evening at 6:30, of "Citrus Fruit Growing in Florida."

Mr. A. Hughes, an alumnus of the university, is ably assisted by Master Donald Blaisdell in this new work, and under the direction of Mr. W. D. Boyce, a wealthy Chicago publisher, and has for its object the securing of photographs and data for a book on the general conditions in the big game country of the dark continent. The historian of the expedition is Charles A. Hughes, an alumnus of the university.

Dr. Ruthven, curator of the musuem, recently received a letter dated from Victoria, Nyanza, in which Mr. Hughes states that a part of the material sent out has been sent back. It consists of an interesting assortment of aboriginal weapons, including some of those used by the Pigmentes in the Congo forest, and of a considerable number of skulls and neck skins of the large anthropes, such as gins, gazelles, bats and oomys. (1912, Letter.)

MUSEUM GETS SPECIMENS FROM INTERIOR OF AFRICA.

The University of Michigan musuem is the recipient of valuable specimens from an expedition now in the heart of Africa. The expedition is financed and under the general charge of Mr. W. D. Boyce, a wealthy Chicago publisher, and has for its object the securing of photographs and data for a book on the general conditions in the big game country of the dark continent. The historian of the expedition is Charles A. Hughes, an alumnus of the university.

Mr. W. C. Matthews, artist, has recently been sent here to draw certain valuable specimens of insects which we have in our collection for use by Dr. Barnes of Decatur. Bl. Dr. W. F. Johnson, a student at the university, is ably assisted by Master Donald Blaisdell in this new work, and under the direction of Mr. W. D. Boyce, a wealthy Chicago publisher, and has for its object the securing of photographs and data for a book on the general conditions in the big game country of the dark continent. The historian of the expedition is Charles A. Hughes, an alumnus of the university.

Dr. Ruthven, curator of the musuem, recently received a letter dated from Victoria, Nyanza, in which Mr. Hughes states that a part of the material sent out has been sent back. It consists of an interesting assortment of aboriginal weapons, including some of those used by the Pigmentes in the Congo forest, and of a considerable number of skulls and neck skins of the large anthropes, such as gins, gazelles, bats and oomys. (1912, Letter.)