

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 9.

LANSING, MICHIGAN, TUESDAY, MAR. 22, 1904.

No. 26

## VACATION.

The spring vacation begins Friday noon and extends until Monday, April 4. Students wishing to go home can get railroad certificates by calling at the President's office Thursday afternoon or Friday. Unless certificates are secured the reduced rates will not be available. The certificate entitles the holder to a return ticket at one and one-third fare. The tickets can be purchased on Friday and Saturday and will be good up to and including Monday, April 4.

## RESOLUTIONS.

The Phi Delta Society has adopted the following resolutions on the death of Harry L. Kimball:

WHEREAS, Our Heavenly Father has seen fit to call our beloved brother, Harry L. Kimball, to his future home, and

WHEREAS, He was an esteemed and honored member of the Phi Delta Society, be it

Resolved, That we, the members of the Phi Delta Society, extend our heartfelt sympathies to his father and friends, and be it further

Resolved, That a copy of these resolutions be sent to the relatives of the deceased, and to THE M. A. C. RECORD, and also to be spread on the records of the society.

ROBT. D. MALTBY,  
G. V. HOWARD,  
Committee on resolutions.

## ATHLETICS.

The Grand Rapids Y. M. C. A., one of the strongest teams in the state played in the College Armory last Saturday evening. The game was fast throughout but at no time was M. A. C. in danger. The M. A. C. team demonstrated beyond a doubt that it is the strongest amateur team in the state.

The line-up was as follows:

M. A. C.	GRAND RAPIDS.
Haftenkamp	g. Clay
Balbach	g. Beattie, Trollope
Schaefer	f. Goodwin
Tuttle	f. Folger
Gill	c. Reymer

Goals from field, Haftenkamp 4, Balbach 2, Schaefer 2, Tuttle 5, Gill 6, Reymer 1; goals from fouls, Balbach 3, Goodwin 2, Folger 4, Clay 1, Beattie 1. Referee, Clark of Grand Rapids. Umpire, Millar of M. A. C. Score, M. A. C. 41, Grand Rapids 10.

On Friday evening the first floor of Abbot Hall defeated the second in an in-door contest, 44 to 33. Hahn won 26 points for the first floor and Clise 12. Hunt and Lambert were the stars for the second floor.

On Saturday afternoon Wells Hall defeated Williams in a dual meet. Hyde, McKenna, Manning and Graham proved a combination of Wells Hall athletes too strong for Williams to overcome. Both contests excited considerable interest and were well attended.

Instructor Holbrook will address the Schoolmaster's Club at Ypsilanti next week on the German Method of Wireless Telegraphy.

## DEBATING CLUB.

The last meeting of the Debating Club for this school year was held last Thursday evening. The question debated was, Resolved, That a law should be enacted placing a limit on the amount of money that any individual should be allowed to accumulate. Messrs. Geo. McMullen and O. A. Turner contended for the affirmative, and H. Schrieber and A. A. Fisk for the negative. The decision of the judges was for the negative. On a motion it was voted to discontinue the meetings of the club during the spring term.

The officers for fall term of next year will be elected the 2nd week of the term. The club can compliment itself upon the marked success of the meetings this year. The standard has been high and interest from the beginning has never once wavered. To the college and members of the club, especially the officers, the club wishes to extend its heartfelt thanks for their kindly support. May the succeeding year's work be "nobler than the last," and let all, who wish for the success of the club and its teams, lend their hearty support to further its interest and welfare.

R. C. P.

## Y. M. C. A.

Clem C. Ford conducted the Thursday evening prayer meeting. Theme: "Idle in the market place." The discussions on the theme by Messrs. George Fryman and R. E. Haines were interesting and suggestive. The meeting was well attended and a success in every way.

Rev. C. E. Thomas conducted chapel exercises Sunday morning. The attendance was fairly good, but the seating capacity was small owing to the seats having been removed for another purpose. This makes twice this term that this has occurred.

Judge Howard Wiest, of the circuit court of Ingham county, spoke before the union meeting of the Y. W. and Y. M. C. A. Sunday evening. This was one of the very best meetings of the year. Theme: "Conscience the judge of life." Judge Wiest said many valuable things among which were the following: The man who goes to college to get an education simply to take advantage of others is a thief, so far as society is concerned, as much as though he had appropriated the money set aside by the state to make those educational advantages possible. He further said, that the advantages given by the state to its students is not an act of charity but an opportunity for which full reimbursement is to be made in increased usefulness to the state and community of which we are a part; and if we do not rise now to meet that responsibility here in college, there will be little probability of our ever doing so, thus cheating the state out of that which if given to more worthy persons would have proved a blessing to all.

H. N. H.

## ONE LESSON IN THE STUDY OF WEEDS.

A farmer or seedsman might think it impossible to distinguish any difference between the achenes (small fruits) of narrow-leaved dock and broad-leaved dock. Both are about the size of seeds of red clover and are often found with such seeds. An hour with a stage microscope enables each of a class of agricultural Juniors to observe the following differences:

1. The achenes of broad-leaved dock are lighter in color.
2. They are less highly polished or less glistening.
3. They are a trifle longer.
4. The three sides across the widest place are considerably convex, while the sides of narrow-leaved dock are nearly flat.
5. The corners of the achenes of broad-leaved dock do not project as much as do those of other species.
6. A straight-edge extending from the middle to the apex of an achene of broad-leaved dock would come nearer to touching for the whole distance, while the side of the other one is prominently concave.
7. The same is true when applied to the lower half of the two achenes.

The seven points appear to be constant in the comparison of achenes of a considerable number of plants of each species. It is needless to say that when such a lesson is learned, the student is better prepared to observe differences between any other two kinds of seeds or small fruits.

W. J. B.

## With '03.

Harry L. Kimball was born in Batavia, Michigan, May 15, 1876. His mother died when he was a baby, leaving him to the care of his grandmother, who preceded him to the better land by only a few days. In 1880 his father married again, Harry then moving to his new home in Union township, where the greater part of his short life was spent, and in which place he died Feb. 29, '04.

He graduated from the Union City high school with '96, after teaching three years he entered the Agricultural College, but his bright hopes were not to be realized. During his Junior year at this institution his health failed him, and he went to Colorado, hoping to gain his strength which seemed to be improved at first, but his friends were shocked this fall to learn of his hopeless condition. He was brought home by his father three months ago.

The funeral was held at his home. He was laid to rest beside his mother in Riverside cemetery, the Masons having charge at the grave.

Harry has always stood for what is good and noble, and his many friends show in what high esteem he has ever been held.

He leaves a father, one who has always filled the place of mother, and two sisters to mourn his loving, hopeful presence.—*Coldwater Reporter.*

## ALUMNI.

### With '67.

Attorney Fred A. Baker of Detroit has written an opinion concerning franchises, based on a decision of the Supreme Court in the California water rights case, to the effect that special franchises granted by councils in cities, villages or townships exist only as long as the legislature of the state chooses to tolerate them. The legislature can delegate to the boards of supervisors the power to revise passenger tariffs on all electric lines within the several counties. The value of these properties can also be appraised by these boards and a rate of fare can be fixed which will enable the company to earn a reasonable dividend on the actual investment.

### '75.

Judge W. L. Carpenter wrote quite an important decision in the supreme court on March 15. A saloon was kept open on Labor Day and the proprietor was convicted in the circuit court. The case was appealed on the ground that Labor Day is not a legal holiday in the meaning of the general liquor law. The defendant's attorneys argued that since the liquor law was passed in 1887 and that Labor Day was not legalized till 1893, the legislature of that year could not have had in mind the closing of saloons on that particular day. Judge Carpenter cited many cases from which he established the fact that the liquor law was intended to apply to holidays subsequently created as well as those existing in 1893. The saloon men used this as a test case. The decision affirms an important principle in law which if not sustained would have caused serious difficulty.

### '83.

Clarence M. Weed, professor of Zoology and Entomology in the New Hampshire College of Agriculture and Mechanic Arts and State Nursery Inspector has issued a bulletin on the Brown-tail Moth. The caterpillars of this moth feed upon a great variety of fruit and shade trees. The winter months are spent in cocoon-like nests containing 200 or more of these pests. They come out in the spring and spin a cocoon about the middle of June. In about three or four weeks whitish moths appear. The females lay eggs in clusters of two or three hundred each, and the latter part of the summer these eggs hatch into small caterpillars. Besides destroying trees, the barbed hairs of the caterpillars cause a peculiar skin disease. When the caterpillars molt, these barbed hairs are shed with the skin, and are blown around by the wind. Upon coming in contact with the human skin they produce inflammation and a rash resembling eczema, a sort of watery blister on top of the eruption. The winter nests should be cut and burned.

### With '94.

C. S. Goodwin is president of a mining company with headquarters at Chicago.

THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

EDITORS.

G. MASSELINK, MANAGING EDITOR.

ASSOCIATE EDITORS:

H. N. HORNBECK, '04a.

L. T. CLARK, '04a.

C. D. STERLING, '05m.

ANNA PICKETT, '04a.

BESS K. PADDOCK, '05m.

G. F. TALLADAY, '05a.

R. C. POTTS, '06a.

GRACE BRAHAM, sp. w.

R. D. MALTBY, '04a.

ANNA PICKETT, '04m.

Subscription, 50 cents per year.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich. Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, MAR. 22, 1904.

HORTICULTURAL CLUB.

The last meeting of the Horticultural club for the winter term was held last Wednesday evening, at which time Mr. Howard Severance, the president of the club, gave a very instructive address.

This address took the form of some ideas that have suggested themselves from our Horticultural studies, more especially from this last term's work, Bailey's Survival of the Unlike. These ideas related to thoughts affecting the speaker's views of education,—its meaning and purpose. His earlier view that education consisted in the acquisition of knowledge and was for the elevation of its subjects to higher planes of intelligence where greater returns were obtained with lesser exertions, a not uncommon view, was nicely set forth in Bailey's characterization of those who are unable to see any recent progress in horticulture. Bailey listed in that class those who, having been early apprenticed, have undergone the stupendous misfortune of having learned in their youth the art and science of horticulture. This method does not make students but teaches the basing of art upon rule and 'authority.' (In this also lies the answer to the suggestion of some farmers that young men can learn 'farmin' better by working for some good farmer than they can by going to College).

The ideal view of what education is and should do for one is, that it should train a person to think and to apply his thought directly upon whatever work he has immediately in hand. The truth of this view is perceived in Bailey's explanation that dominant Horticultural varieties are dominant by virtue of their ability to vary so as to meet the divers conditions of different geographical centers. If the individual is to be dominant or succeed, his thought faculty must be called into active life to enable him to vary his methods to meet diverse conditions. Once called into active life with a perception of his true relation to his environment, the very fact of the variability of environment is the force that is to keep alive and active his thought power for ever after. This is the coveted goal that every

true teacher strives to reach, whether they see the principle involved or not, that is to give their pupils such an interest in knowledge that it will not be dropped as soon as they leave the school-room. The error of the old idea arose from the fact that people believed they were preparing to meet and apply themselves to fixed conditions. But nothing is fixed. All environments are ever changing. Evolution is everywhere. And the true end of practical education is to teach a person to think on the work immediately in hand and to ever vary, to improve his methods to meet the ever shifting conditions of their environments.

The comparative value of graduation over an uncompleted course is as the silver dollar that bears the government stamp over the same amount of unstamped silver bullion. It bears a value far above the intrinsic difference. This law extends even down to our daily tasks of which graduation is the sum. The difference in results that flow from completed tasks or slighted tasks is all out of proportion to the difference in intrinsic value between the two at the time. This brings us again to our original proposition of the two views of education.

Some students, holding to the old view of education as the acquirement of knowledge solely as an instrument for use in their future work, hurry their course. Pride, desire to excel, to save time and money, impel them to sacrifice thoroughness and completeness to pride of appearance. They no doubt recognize the value of these qualities, but they put them off till that time when they shall arrive at their real work of life and relieved from the stress of competition will have time to put in practice those habits which it should have been the true end of their college course to have developed in them. What foundation have they for this presumption and this procedure?

In our common school days we were given high ideals and ambitions for future achievements in intellectual lines. In our vacations, looking forward to a college course, we attempted in a desultory way to keep up self-improvement in preparation for College. But our ideals and ideas of education are at variance with our environment. Absent from the schoolroom, we find ourselves burdened with the strife after something superficial to our immediate needs. (Here we have suggested a fault of our common schools in not directing the thought of their pupils to their environment.) We finally give up and put the matter off to arrival at College where we can devote our whole time directly to one thing—education. Arrived at college, the student still finds himself harassed by that same trouble, lack of time. Pride of appearance, the desire to excel, or to keep up, lead him to put off thoroughness until that future day when out of college he will have more time. The desire to excel, to keep up, will not cease to suggest itself to one after he has passed from the Halls of College. The very busy life of R. M. Kellog, long one of Michigan's leading horticulturists, was portrayed as a suggestion that might be the means of disillusioning those young persons whose ambition prompts them to put off thoroughness to some future time. The point is that sooner or later if we would succeed, we must balance our outlay of work with our powers of execu-

tion. And he who delays the yielding to this truth till after College misses the vital thing which it is the essential purpose of a college education to do for him.

In closing the speaker said that had he been forced to found his farewell remarks on a text, he would have taken that incident where the aged Simeon who saw our Lord brought by his parents to the temple, said, I have lived all these years with the desire to see Him, and now that my desire is fulfilled I am ready to die. So with this view of education, it has required all these years to arrive at this conception but with its arrival vanish all those errors and that fear, born of past experience, that with the departure from the classroom there would return again a relapse into that apathy and mental stagnation which ever follows the attempt to follow divergent lines of thought and work. So having arrived at this conception, I am ready to say farewell to college and to enter into the field of life.

Mr. Thomas Gunson talked a few minutes on "Markets." He spoke of the influence the past severe winter had on transportation and prices of perishable products.

The election of officers resulted as follows: Pres., D. B. Button, '04; Vice Pres., J. E. Schaefer, '05; Sec., Mr. Harry C. Oven, '05.

The club enjoyed a feast of Indiana seedling apples. This variety is a good keeper.

The club held ten meetings during the winter term, all of which were of unusual interest. Among the articles presented were the following:

Apple Culture in New York State by H. J. Eustate, '01.

Horticulture in Illinois by G. M. Bradford.

Strawberry Culture by C. B. Cook, '88.

Peach Growing in Central Michigan by C. P. Reed, '01.

Packing and Marketing Fruit by Paul Thayer, '01.

Comments and exhibition of samples of ornamental trees and shrubs sent by R. T. Stevens from Santa Barbara, Cal., by C. J. Woodbury.

Comments and exhibition of fruits sent by R. T. Stevens from California by Prof. U. P. Hedrick.

Soils by Prof. J. A. Jeffery.

President's Address by Howard Severance.

The next meeting will be held the second Wednesday evening of next term.

The program for the spring term is ready for distribution. A copy can be secured at the president's office.

The Columbian Literary Society entertained their friends with a very unique party last Saturday evening. The members responded to their nicknames with quotations of their society members. In the course of the roll call many valuable facts about the various members were disclosed. The entertainment was almost entirely original, and the participants deserve considerable credit for the interest that was manifested during the performance. After the program was over refreshments were served, but owing to the lateness of the hour the games that had been planned for the evening had to be dispensed with, and the young ladies had to return home, feeling that the evening had merely begun. In the business meeting later in the evening, the society elected the following officers: Pres., W. J. Wright; Vice Pres., W. P. Robinson; Sec., A. M. Robson; Treas., J. Bowditch; Marshal, L. F. Minor.

Prof. L. R. Taft returned from St. Louis last Tuesday. Most of the buildings are ready. Some of the foreign buildings are still in process of construction. The Fair grounds are being put into shape and will be very attractive. Many exhibits are already on the grounds, tables and cases are being prepared and everything will be ready in the near future. The Michigan building has been delayed on account of a strike by the plasterers. These men receive almost anything they want, \$7.00 per day being the regular wages. For small jobs they ask at the rate of \$15.00 for an eight-hour day. F. W. Taylor, Superintendent of Horticulture and Agriculture of the Exposition, has asked Prof. Taft to act as chairman of the department jury of horticultural exhibits. This work will be divided into five groups—pomology, viticulture, arboriculture, cut flowers, greenhouse plants, tools and apparatus. Each group will have a separate jury and the chairman of these group juries will constitute the department jury of which Prof. Taft is to be chairman. The president of the exhibition, the director of exhibits, the head of each department and the chairman of each department jury will constitute the superior jury. Only men of national reputation will be found on this jury. The selection of Prof. Taft not only recognizes him as one of the leading horticulturists in the country but is at the same time an honor to M. A. C. The work will begin about April first and continue for eight months. THE RECORD, in behalf of the college community and alumni, extends congratulations to Prof. Taft.

The Latest and Best Creation in Confections

Wilson's Bitter Sweets

TRY THEM AT

WILSON'S SUGAR BOWL,

106 Washington Avenue South.

## NORTON'S RANGES!



The Easy Line to Use

Take it EARLY in the SPRING, and avoid that tired feeling which surely comes unless you have a

MARQUART OR LINCOLN.

CHAS. M. NORTON,  
111 Washington Ave S.

## Furniture...

Headquarters

COMPLETE LINE OF FURNITURE FOR STUDENTS' ROOMS

Canvas Cots at 95c. Woven Wire Cots at \$1.50. Woven Wire Springs at \$1.50, \$2.00, and \$2.50. Mattresses at \$2.00, \$2.50 and \$3.00. Tables at \$1.50 and \$1.35. Chairs at 50c up.

All goods delivered to your room free.

M. J. & B. M. Buck.



This Cut represents one of the many

New Styles in Men's Hats

which we now offer for your inspection. Nothing but latest styles and best qualities find place here. Same applies to our neckwear and cap stock—they are up-to-date in every respect. Student patronage solicited.

ELGIN MIFFLIN

THE JEWETT & KNAPP STORE

## Lansing's Low Priced Reliable Store

Every Department full of New Fall Goods.

New Dress Goods, Silks, Laces, Gloves, Hosiery, Underwear, Silk and Cotton Shirt Waists, Muslin Underwear, Dress and Walking Skirts, Tailor Made Suits, and Jackets.

We also carry a Complete Stock of Lace Curtains and Draperies.

Jewett & Knapp,

222, 224 Washington Ave. S.

Lansing, Mich.

## ABOUT...

THE BEST OF SHOES

AT \$3.50 A PAIR.

They are made in a shape to fit your foot. (Seven shapes).

They are made in the leathers you like (Four leathers).

They are made as stylish as five dollar shoes. (They cost you \$3.50).



C. D. WOODBURY,

HOLLISTER BLOCK

## ABOUT THE CAMPUS.

Running a paper is like poking a fire,—every one thinks he can do it better than the one who has the poker.

The next pay day for student labor is tomorrow. All students having done work for the college should report at the Secretary's office.

The *Ferris Institute News* is a very interesting monthly. The items are pithy and full of information. The general arrangement is excellent.

Mr. C. A. Reed entertained his sister at the College from Saturday till Monday, during which time his numerous friends tendered him an informal reception.

Mr. C. H. Goetz, of the University of the Pacific, San Jose, California, has written his intention to begin the forestry course at M. A. C. next fall.

Chas. F. Wells of Lancashire, England, visited M. A. C. last Monday. He is engaged in the engineering business and inspected the shops at the college.

The Hersey Manufacturing Co., of South Boston, Mass., has kindly loaned the Mechanical Department a hot water meter for use in connection with boiler tests.

The Sororian Society has elected the following officers for next term: President, Mary Tingley; Vice President, Anna Angell; Secretary, Calla Krentel; Treasurer, Irene Way; RECORD Editor, Emma Danforth.

The Themian officers for the spring term are: Pres., Dora Skeels; Vice Pres., Edna Rupert; Sec., Ethel Hume; Treas., Pauline Raven; Marshal, Mary Pratt.

Mr. Longyear is working on a bulletin explaining seed testing. It is to be popular in style, illustrated, and will give simple methods to detect impurities and determine vitality.

The classes in woodshop are now making patterns. Exercise patterns precede special work. These must be completed before the student can enter upon work that is to be used in the shops.

The officers for the M. A. C. Forester's for the spring term are: Chief Forester, G. C. Morbeck; Assistant, G. F. Talladay; Chief of Records and Accounts, H. H. Crosby; Warden, C. M. Granger.

J. B. Brooks, of San Antonio, Texas, has sent samples of rice to the department of agronomy. Rice in the head, raw rice, rice screenings, brewer's rice, rice polish, rice bran and mixed feed are found in the collection.

The Olympic Society elected the following officers for the spring term: Pres., Dayton A. Gurney; Vice Pres., Geo. C. Morbeck; Sec., Howard L. Francis; Treasurer, Max Phippeny; RECORD Ed, Arba H. Cameron; Marshal, I. E. Parsons.

A new literary society for women known as the Ero Alphan has just been organized with the following officers for the spring term. Bertha

Hinkson, president; Arvilla Coomer, vice-president; Grace Owen, secretary; Bernice Jackson, treasurer; and Florence Gilbert, marshal.

The following officers were elected by the Phi Delta Society for the spring term: President, R. D. Maltby; Warden, G. V. Howard; Secretary, L. O. Gordon; Treasurer, H. J. McNulty; Marshal, A. H. Pearsall; RECORD Editor, E. B. McKenna.

The college papers speak very favorably of Miss Elva Davis, M. A. C.'s representative at the oratorical contest. All agree that she had "a strong oration and excellent delivery." The judges on delivery come in for a severe scoring from nearly every institution.

Dean Goss, of the Engineering Department of Purdue, has charge of the mechanical exhibit at St. Louis. He has written a letter to Prof. Weil commending the material sent from M. A. C. He says that more such material is needed and that he wishes the contribution could be larger.

Farm mechanics is taught in the spring term of the freshman year and fall term of the sophomore. Draft of plows, harrows, wagons, etc., is studied. The course will be enlarged as soon as room can be provided. Farm machinery receives but little attention so far but it will be introduced as soon as possible.

The Boarding Club Association is finding the fuel problem rather difficult. Dry wood is hard to secure and is very expensive. A car

load shipped in from Barryton, Mecosta county, will cost about \$2.75 per cord when ready for use at the clubs. The wood is dry beech and maple, 16 inches long.

The Freshman Oratorical contest of the Columbian Literary Society was held last Saturday evening. Mr. A. W. Wilson received first place, T. F. McNally second, and C. P. McNaughton third place. The contest was very good and the judges found it rather difficult to decide who really did the best.

Pres. Snyder left last week Wednesday for Washington to attend a committee meeting of the experiment stations. This committee has for its object the securing of an increased government appropriation for experimental purposes. Mrs. Snyder and family left the same day to visit relatives in Cincinnati.

The senior engineers will make a car test in the near future on the city electric line. The efficiency of the cars, power, and influence of grades will be determined. Instructor Curtis has charge of this work. Instructor Holbrook will take charge of a test to determine the efficiency and regulation of the induction motor in the dairy building.

Prof. Kedzie took the young women in domestic science chemistry to Thoman Bros.' flour mill last Friday. The different processes were carefully observed and explained. A trip of this kind adds to the interest in the work and gives students a practical idea of how things are done. All were highly pleased with the results of the visit.

The Thursday evening Y. W. C. A. meeting was devoted to the election of officers for the coming year. President, Irene Way; vice-president, Eva Keeney; secretary, Louise Reed; treasurer, Pauline Raven; Chairman Devotional Com., Eva Keeney; Chairman Social Com., Ethel Adams; Chairman Inter-Collegiate Com., Viva Calkins; Chairman Finance Com., Pauline Raven; Chairman Missionary Com., Arvilla Coomer; Chairman Bible Study Com., Bessie Paddock.

Miss Ruth Bogue of Pomona, California, is visiting at her brother's, Prof. E. E. Bogue. Miss Bogue is with the G. H. Waters Canning Company, one of the largest in the state. The business of the firm amounts to one hundred and fifty thousand dollars per year and Miss Bogue has charge of the book-keeping and correspondence. The weather here and in Ohio where she has been visiting relatives is a decided change from the ninety degree weather of southern California. She expects to visit other friends and relatives in this state and Chicago stopping on her return trip to see the Exposition grounds and buildings at St. Louis, finally returning to Pomona via New Orleans.

Prof. U. P. Hedrick's statement that robins cause serious damage to cherries and strawberries particularly, and that something should be done to prevent their destructiveness has called forth lengthy editorials in some of the Detroit papers and criticisms pro and con from many state editors. Some advocate a trial by an impartial jury of peers before the robin is condemned. No doubt the owl would make an excellent Judge and a sparrow or two, a blackbird, a cherry bird, etc., would constitute a good jury. The hawk might be retained as attorney for defendant and the jay would do well as court crier. The crow would undoubtedly prove a star witness. The verdict would be a foregone conclusion.

It has been found that an insoluble body (having no chemical action whatever upon the solute) will reduce to an amazing extent the injurious effects of solutions upon seedlings. This has been proved in the case of 8 different solutions (all which are used) by the addition of thoroughly washed ground quartz to the solution. An illustration may give a better idea. Corn seedlings will just withstand a solution of  $\text{CuSO}_4$ , concentration  $\frac{n}{262144}$  in liquid but if quartz be added, it withstands a solution of  $\frac{n}{4096}$ , or 64 times as strong. This points toward the conclusion that a chemical analysis of soil is no final argument as to what may be available for plant roots. It seems also as though the sand or soil exerts a high mechanical attraction upon solutes (substances in solution). The ordinary water-culture nutrient solution will be, therefore, no certain basis upon which to conclude what the soil should contain.

The annual declamatory contest of the Freshmen belonging to the Union Literary Society took place last Saturday evening. Mrs. Landon, Mr. Masselink and Prof. Babcock acted as judges. The following program was rendered: The Man with the Opportunity, Mr. Wilson; Our Debt to England, Mr. M. O. Johnson; Sparticus to the Gladiators, Mr. Haines; Extract

from Bolivar's Speech, Mr. Glazier; The Volunteer Organist, Mr. Talant; The Representative Orator, Mr. Kratz; Let France be free, though my name be accursed, Mr. White; Liberty or Death, Mr. Landon. The contest was interesting throughout and showed the presence of some excellent speakers. First place was awarded to Mr. Landon and second to Mr. Haines by a score of 257 to 255. Instructor Gunson presented the awards in a very pleasing and impressive manner. The prizes were a society pin and volume of Tennyson's poems. After the contest the contestants served refreshments. The evening was a very enjoyable one. Secretary and Mrs. Brown were among the number present.

'03.

In a personal letter to Mr. Leonard, Mr. S. Garthe, who has charge of the manual training department in Iron Mountain, made inquiry respecting the price of six wood turning lathes. Mr. Garthe is familiar with the construction of these lathes, having worked with them in our shops and states that he likes them very much. The mechanical department hopes to make the sale. They must be shipped in time for next fall's work.

**IS THE NATIONAL GOVERNMENT GOING TO DO SOMETHING FOR THE FARMER?**

The national government gives the rivers and harbors some \$30,000 a year.

It gives the cities great public buildings, postoffices, court houses, etc.

It gives manufacturers protection by the tariff.

It gives its veterans and their families \$140,000,000 a year in pensions as it should.

It has loaned its credit to private individuals to build railways, and given them grants of millions of acres of land.

It has, however, done but little for the farmer and for agriculture.

The farmer is the backbone of the country; it is he who feeds the entire population, and he is no longer satisfied with poor roads.

At last it seems as if the national government was going to do something for the farmer. A bill has been introduced in congress called the Brownlow bill, which appropriates \$24,000,000 as national aid for the building of roads. The farmer wants this bill to pass, and he is determined that the national government shall do something for him, as well as for the rest of its citizens.



**SPALDING'S BASE BALL GOODS!**

OF ALL KINDS NOW IN STOCK.

We shall make every effort to keep in stock just what you want.

**J. H. LARRABEE,**  
325 Washington Ave. S. LANSING.

Its Record shows it to be

**THE POLICY HOLDERS' COMPANY**

The Mutual Benefit Life Insurance Co.,

OF NEWARK, N. J.

CHAS. B. COLLINGWOOD, District Manager,

Agricultural College.

Lansing Office, 100 Hollister Block.

**WHEN IN NEED OF Society or Dance Programs**

CALL ON

**Lawrence & Van Buren Printing Co.,**

122 Ottawa St. E. Lansing, Mich.

**DIRECTORY**

LANSING BUSINESS and PROFESSIONAL MEN

The names in this Directory, as well as those of all our other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

**BARBERS.**

M. A. C. BARBER SHOP, Rooms in New Bath House. H. A. Sias, Propr.

**BOOKS AND STATIONERY.**

A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames, Fine Framing a Specialty. New store. New Stock.

CITY BOOK STORE, Fountain Pens, Drafting Tools, Stationery, Cards Engraved, Pocket Books, Card Cases and Bibles. Tennis, Football and Baseball goods. Crotty Bros., 206 Wash. Ave. N.

**BOOK BINDERS**

GEO. G. BLUDEAU & CO.—Bookbinders Account book makers, paper ruling, library and fine art bindings, file boxes, map mounting, albums, pocket books, etc. Citizens phone No. 56. 109 Wash. Ave. N.

WAGENVOORD & CO.—Bookbinders, Blank-book Makers, Library and Art Bindings, Albums, Pocketbooks, Map Mountings, etc. Back numbers of magazines and periodicals supplied. Bell phone 378. 109 Washington Ave. South.

**BOOTS AND SHOES.**

C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

**CONFECTIONERY.**

ONLY the best candies at the "Sugar Bowl," Washington Ave. S.

**CLOTHING.**

BUY your Dry Goods and Clothing, Hats, Caps and Furnishing Goods at H. KOSITCHEK & BRO'S, 113 Washington Ave. N., and 210 Washington Ave. S.

LOUIS BECK.—Clothier. Gents' Furnishings, Hats and Caps. 112 Washington Ave. North.

**CROCKERY AND GLASSWARE.**

H. H. LARNED.—China, Glass and Lamps. 105 Washington Ave. S.

**DENTISTS.**

A. F. GORDON, D. D. S. M. A. C. '91, U. of M. '01. 218 Washington Ave. S. Phone, Citizens 862.

J. E. STOFFER, D. D. S. Office 105 Washington Ave. S. Former M. A. C. student.

R. W. MORSE, D. D. S. Hollister Block, Room 517. Citizens Phone 52. Bell Phone 396.

N. H. MOORE, D. D. S. Office 411-13 Hollister Building, Lansing, Mich. Citizens phone 475.

**DRUGGISTS.**

ROUSER'S CAPITAL DRUG STORE. Up to date. Corner store. Opposite Hollister Block.

ROBINSON DRUG CO., successors to Alsdorf & Son, Drugs and Druggists' Sundries. 102 Washington Ave. N.

**DRY GOODS.**

THE JEWETT & KNAPP STORE. Dry Goods. 222-224 Washington Ave. S.

**ELECTRICAL SUPPLIES.**

CAPITOL ELECTRIC CO. Electrical Supplies, Telegraph Instruments and Telephones. 321 Wash. Ave., S.

**ALL MEATS . . . .**

May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us. We make daily trips to the College. BOTH PHONES. Careful attention given to phone orders.

A. C. ROLLER,

Successor to GOTTlieb REUTER, Washington Ave. South.

**FURNISHING GOODS.**

ELGIN MIFFLIN.—Ladies' and Gentlemen's Furnishing Goods. See ad.

**FURNITURE DEALERS.**

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

**HACK AND BAGGAGE LINES.**

ORDER your hacks for parties at Carr's Hack Line. Livery in connection. 410 Washington Ave. N.

**HARDWARE, STOVES AND TINWARE.**

NORTON'S HARDWARE—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

**INSURANCE.**

THE DYER-JENISON-BARRY CO., LTD., (Incorporated) Hollister Block. All kinds of the best insurance. Strongest agency in city.

**JEWELERS.**

CHAS. A. PIELLA, Jeweler and Optician. 121 Washington Ave. N., Lansing, Mich.

**MANICURE AND HAIRDRESSING.**

MRS. O. T. CASE—Manicure and Hairdressing Parlors. Masquerade Wigs for Rent. Switches made of cut hair or combings. New 'phone 118. 222½ Washington Ave. S., up stairs.

**MERCHANT TAILORS.**

JOHN HERRMANN'S SONS, 218 Washington Avenue N.

WOODBURY & SAVAGE.—Tailors. Student trade solicited. Opposite Hotel Downey, North.

**MUSIC, PIANOS, ETC.**

GRINNELL BROS. Pianos, Organs and everything in the line of music. 219 Washington Ave. N.

**OCULISTS.**

CHAS. G. JENKINS, M. D. — Diseases of Eye, Ear, Nose and Throat. Hours, 9 to 12 a. m., and 2 to 5 p. m. Citizens Phone No. 1030, 224 Washington Ave. South.

**PHOTOGRAPHS.**

C. E. WALTER, M. A. C. I make Photographs; Landscapes, Buildings, Interiors, Flash-lights, Lantern Slides, Transparencies, Medallions and Stereoscopic Views. Developing and Printing for Amateurs. Views for sale.

**PHYSICIANS.**

J. W. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 219 Capitol Ave.

D. R. H. W. LONDON, Office and residence, M. A. C. Office hours from 7 to 8:30 a. m., and 12:30 to 2, and 6:30 to 8 p. m. Sunday office hours 4 to 5 and 7 to 8 p. m. Now phone 1560.

D. R. OSCAR H. BRUEGEL, Hours 9 to 11 a. m.; 2 to 4 and 7 to 8 p. m. Agricultural College, Mich. Citizens phone 1502.

**PLUMBERS.**

SHIELDS & LEADLEY. Plumbing and Heating. 300 Wash. Ave. N., Lansing. Both Phones.

**SPORTING GOODS.**

J. H. LARRABEE. Base Ball Goods, Foot Ball Goods, Tennis, Golf, Guns, Ammunition and Fishing Tackle. 325 Wash. Ave. S.