

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 9.

LANSING, MICHIGAN, TUESDAY, JAN. 12, 1904.

No. 16

## LOST.

A Waterman Ideal Fountain Pen lost between Williams Hall and College Hall. Finder please return to room 2 Williams Hall and receive reward.

## ENTERTAINMENT.

On Friday evening, Jan. 15, Melvin Robinson will appear in David Garrick at the College Armory. Mr. Robinson is a reader and interpreter of wide experience and is favorably known throughout the central part of the United States. It will be an evening of pleasure as well as profit. Admission is 35 cents.

## BASKET BALL.

The first game of basket ball was a decisive defeat for M. A. C. by the Chicago West Side Y. M. C. A., who won the A. A. U. championship last year. M. A. C. had practiced only four days and were not in shape to meet so swift a crowd. Chicago was fast, accurate, and played a strong game both offensively and defensively. M. A. C. was in the air from the start. Team work was lacking, and trials for goals were unusually barren of scores. An enthusiastic crowd saw the game. The M. A. C. line-up was, Balbach, captain and center; Schaefer, left forward; Haftenkamp, right forward; Tuttle, right guard, and Millar, left guard. The score at the end of the first half was 23 to 7 and the end of the game 44 to 13 in favor of Chicago. Stewart, the Chicago referee, was an excellent one though a little inclined to see fouls on the part of M. A. C. and overlook those of Chicago. This was natural and deserves no unfavorable criticism. M. A. C. has excellent material and a little more team work and practice will put her where she belongs. Chicago puts up a class of ball never before seen here, and M. A. C. was far below her usual standard.

## Y. M. C. A.

Mr. B. Wermuth conducted the Y. M. C. A. services Thursday evening. The services were well attended and interesting. The committee has made several changes in the plan of the Thursday meetings. Come out to see what they are.

Rev. Wm. Ewing, State Sunday School Organizer, spoke in Chapel Sunday morning. Mr. Ewing's theme was the secret of St. Paul's successful life. His text was 2 Tim. 1:12: "For I know whom I have believed, and am persuaded that He is able to keep that which I have committed unto Him against that day." The sermon was very interesting. Keep watch of future announcements for Mr. Ewing has consented to speak for the associations some Sunday night.

Pres. J. L. Snyder spoke in Chapel Sunday evening. His

theme was, "A consideration of the many blessings and privileges, and their attendant responsibilities and obligations." The talk was interesting and well received. The attendance was large, in fact the chapel was filled to its utmost capacity. We need a sufficiently large and well arranged auditorium very much.

## THE RURAL ADVOCATE.

The RECORD acknowledges the receipt of Vol. 1, No. 2, of the *Rural Advocate*, an illustrated monthly magazine devoted to country life, published in Battle Creek. The general make-up of the magazine is very neat and artistic. The articles are well selected and contain some very interesting information. The College receives very favorable mention. M. A. C. welcomes this journal and is ready to do all in its power to further the interests of the *Advocate* and thus help to make home life in the country more beautiful and better.

## FARMERS' INSTITUTES.

For this week: Muskegon Co., Ravenna, Jan. 11-12; Mason, Ludington, Jan. 11-12; Iosco, Tawas City, Jan. 11-12; Kent, Lowell, Jan. 13-14; Newaygo, Hesperia, Jan. 13-14; Clinton, Ovid, Jan. 13-14; Alcona, Harrisville, 13-14; Montcalm, Trufant, Jan. 15-16; Shiawassee, Corunna, Jan. 15-16; Presque Isle, Millersburg, Jan. 15-16.

## NOTICE.

The devotional committee of the Y. M. C. A. will hold a meeting on Thursday evening immediately after the prayer meeting.

## FOR SALE.

The engineering department has for sale one 8x12 inch horizontal high-speed, automatic engine. This engine was originally built in the M. A. C. shops and the castings were furnished by the Lansing Iron and Engine Works, but has been supplied with new fly and governor wheels and governor purchased of above company. This engine is nominally 25 h. p.

The above department also has for sale a number of second-hand lathes of which a full description will be furnished upon application.

Washington, D. C., Dec 12, 1903. Pres. J. L. SNYDER, Michigan Agricultural College, Agricultural College, Mich.

Dear Sir: This office desires to engage two experts to carry on certain lines of investigation and research in irrigation and agricultural engineering which are related to pumping of water, for irrigation and other farm purposes, and to collect information and make experiments on the design and use of farm

machinery. The qualifications desired are:

Some practical knowledge of farming operations; technical training in a school of civil or mechanical engineering; practical experience in installing and running the kind of pumps used on farms and in irrigation, for the first position. And service in operating agricultural machinery, or, preferably, in its manufacture and sale.

In both cases the positions demand men with a taste and capacity for original research and experiment, and for young men having a talent in these directions they offer great opportunities.

If there is any one you can recommend for either of these positions, you will confer a favor by sending us his name and address. The salary will depend upon capacity and experience, \$1,500 and \$2,000 per annum being the minimum and maximum limits.

Trusting I may hear from you, I am,

Very truly yours,

A. C. TRUE,  
Director.

'93.

Prof. W. Paddock, of the Colorado Agricultural College, has been seriously ill with erysipelas.

E. M. McElroy is superintendent of the Three Rivers public schools for the third year. "Mc" received his bachelor's degree from the University in '97 by studying during vacation. He has 25 assistant teachers, 9 of which are in the high school. The Annual Announcement is a very neat pamphlet giving courses of study, rates of tuition and items of interest to students and parents. We commend it for its brevity and pointedness. High school announcements usually contain about two pages of matter pertaining to school work and ten to rules and regulations for janitors, teachers, students and board.

With '96.

G. C. Van Alstyne has been in the mining business for the past five years. He is now connected with the Continental Mines and Smelting Corporation of New York city as secretary and treasurer. The company has a capital stock of \$5,000,000 and is now engaged in selling shares. The reports from the mines are encouraging.

'97.

Dr. J. W. Rigterink returned from his European trip on Dec. 26, '03. He has located again at Freeport. Dr. Bailey, who took care of his practice, contemplates going to Walkerville.

E. C. Green is engaged in horticultural work in the Texas Agricultural College. He attended the A. A. A. S. at its recent meeting in St. Louis.

'03.

J. H. Hedges and F. C. Rork, of the Michigan Mining School, visited at home during vacation and called at M. A. C. They expect to receive the E. M. degree next fall.

## ALUMNI.

'73.

Charles S. Crandall is assistant professor of horticulture in the University of Illinois.

'76.

The Michigan Underwriters' Association listened to a most pleasing and instructive address at the regular meeting at the Fellowcraft club last night by R. A. Clark, manager of the Phoenix Mutual Life for eastern Pennsylvania and West Virginia. His subject was "The Ethics of the Life Insurance Business," and his remarks were heartily applauded. Among other things, he paid his respects to the much mooted question of "When shall competition cease?" in the following terms:

"It seems to me that our opinion on this question depends entirely upon the standpoint from which we view it. If we view it from the standpoint of half-fed, half-clad, vicious men with whom only might makes right, and to whom bread is the reward of blood, that is one thing. If we view it from the standpoint of well-bred, cultured gentlemen, practicing the greatest altruistic profession in the world, that is quite another thing. I know not how you may view it, but as for me I prefer to view it from the latter standpoint.

"When I stepped out from my hotel this morning and whistled to a newsboy to bring me a paper, they seemed to spring upon every hand as if by magic and came toward me as if on the wings of the wind. When one of them had fairly outstripped his competitors and had placed his paper in my hand his competitors turned and walked away with the quiet dignity of defeat by an honorable rival. I said to myself, if the whole insurance fraternity could have witnessed that demonstration of the law of fair play by these little waifs the question of when should competition cease would never again be a topic of discussion before any national or local association."

The speaker also deplored the twisting of agents either by manager or companies as being quite as pernicious as the twisting of policies.

With '88.

Dr. J. A. Wisner is Director of the Columbus Laboratories, Chicago. A medical, food and milling department are maintained. It was contemplated to start a brewers and distillers college in connection with the above, but Uncle Sam concluded that such an arrangement interfered with his rights unless a license was secured. Accordingly, he sent his marshall and arrested the whole force. It seems that technicalities prevent the issue of a license. A distillery must be by itself and must be built in a certain way. The force was bailed out.

'91.

V. S. Hillyer is a consulting mining engineer at Ishpeming, Mich.



# THE M. A. C. RECORD.

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

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TUESDAY, JAN. 12, 1904.

THE RECORD has recently received a communication to the effect that unless stationery and stamps were sent no more personals would be forthcoming. THE RECORD is very grateful for items concerning Alumni and fee's to a great extent dependent on Alumni for information. However, it is not possible to send pen, ink, stationery, stamps and writing desks to each Alumnus in order to secure every once in a little while an article. We shall have to depend on your generosity and good will until some oil magnate endows THE RECORD with a million or two, of which due announcement will be made. Until then please continue to contribute gratuitously.

THE SUBJECT of English is one of the most important in a college curriculum, whatever the nature of the course may be. A good knowledge of English is fundamental and is essential to success in the business world as well as in professional work. Every student should have a five-hour English study every term in his college career. The argument that students in technical courses do not need English is a self-evident fallacy and consequently needs no refutation. Spoken English is frequently of a poorer quality than written English, especially in colleges. Consequently, debating classes, oratorical contests and extemporaneous speaking should be enthusiastically encouraged.

A REPORT to the effect that a student's expenses last year had been \$500, and that he had for that reason been obliged to discontinue his course, led ye editor to an investigation. Several Senior engineering students were interviewed and also one or two Juniors. While these young men have not had "money to burn," they have dressed well, boarded at the clubs, taken in athletics and social functions, and have not had so-called College jobs, yet they have succeeded in making their expenses with the exception of from \$50 to \$75 per year. Of course they worked during vacation and were careful in every way.

The point is this, while some spend \$500 a year of money not their own, others go through on \$50 a year and receive better marks. Young men of the latter type need no College sheep's skin. It is simply so much freight. They will make their own way and their course in "hard knocks" and "brush heaps" is of more value to them than the College training is to the former class. The law of the survival of the fittest should be enforced with the aid of a hickory club.

## ALUMNI.

'88.

F. H. Hall, editor and librarian of the Geneva Experiment Station, is doing a great deal of work in Farmers' Institutes throughout New York State.

'98.

Geo. Richmond, instructor in chemistry in the University of Michigan, will leave for the Philippines in the near future to engage in work along chemical lines for the U. S. government.

'99.

F. R. Crane is an assistant professor in the University of Illinois, department of farm mechanics. He has four courses: Drafting as applied to farm buildings, drainage, and two courses relating to farm machinery. Mr. Crane has built up this department himself during the past four years.

'00.

The following card to Prof. F. S. Kedzie is self explaining. Belding, Jan. 4, '04. Frederick Bristol Ranney arrived this morning at 8 a. m. and is a fine young man. Presents his compliments. Ellis says to tell you that we put him directly into a football suit and are only waiting for his hair to grow a little. As ever, T. A. B. R. May he prove as good a player as his paternal ancestor and have more hair.

'01.

Hugh Baker of Yale University, and Miss Fleta Paddock, in charge of domestic science and art in the Saginaw public schools, attended the Knaggs-Stone wedding in Bay City, Dec. 31.

Miss Celia Harrison has taken the position vacated by Miss Knaggs in the public schools of Superior, Wis. The course in Domestic Science and Art in Superior is very complete and M. A. C. people seem to be in demand. Miss Harrison has taught Domestic Science in the Adrian Industrial School since July, 1902.

H. J. Eustace, instructor in horticulture and assistant horticulturist at M. A. C., was born in Rochester, New York. He attended the public schools of Rochester and entered M. A. C. in the fall of '97. After graduation he went to the Geneva experiment station as assistant botanist. During the winter of 1902, he took work in botany and horticulture at Cornell University under Atkinson and Bailey. He resumed his work at the New York station and continued in that position until called to M. A. C. He commenced his duties here on Jan. 4. His time here will be divided between the College and the station.

J. G. Aldrich is drafting in Fort Wayne, Ind. A baby girl reported at his home the first part of December.

With '01.

G. M. Bradford has for the past four months been investigating the bitter rot of the apple and conducting cold storage experiments for the University of Illinois. The cold storage plant owned by the University is located at Neoga, Ill.

'02.

D. S. Bullock is doing well teaching agriculture and horticulture in Chile. Mr. C. A. Sadler writes that Mr. Bullock is working hard and is proving a very valuable man. His address is Araucanian Mission, Casilla No. 15, Temuco, Chile.

With '02.

Harry P. Weydemeyer is in Marston, Montana. He is working in a construction camp of the Great Northern R. R., and maintains a land claim at the same time.

C. E. Johnson of the junior class is constructing a  $1\frac{3}{4}$  horse power gasoline engine. The department has eliminated all work not purely educational and has compelled Mr. Johnson to do a great deal of the work on his own time. The opportunities for work along this line are getting more limited all the time. The engine will weigh in the neighborhood of 30 pounds and is designed to be used in propelling a bicycle. Verily, the human mind is working hard to eliminate the use of muscular force.

The short courses are now in full swing. Prof. Smith is as busy as a boy fighting bumble bees in an oat field. 54 students have enrolled for the course in Live Stock and General Farming, 32 in the Creamery and 9 in the Fruit Course. The Cheese and Beet Sugar Courses begin in February and will bring in quite a few more. The quality of the new students is above the average and all are taking hold of the work in excellent shape. The attendance in the Creamery Course is only one-half of last year due largely to the fact that a season's experience is required for entrance.

The Traverse City meeting of the State Horticultural Society was a good one. The program was excellent and the display of apples surpassed anything ever shown at a horticultural society in Michigan. The M. A. C. men who attended were C. B. Cook '88, F. Paine '89, E. O. Ladd '78, C. E. Bassett with '87, C. C. Lilly '84, H. S. Kneeland '02, Prof. U. P. Hedrick '93, Prof. L. R. Taft and Instructor Thomas Gunson and Mr. M. E. Dean. Geo. Hawley, '92, was to have appeared on the program, but was prevented by the arrival of a new Hawley.

Among the machines and devices recently designed by the seniors in mechanical engineering is a very neat screw press for pressing drawings. This has just been finished up in the machine shop and will probably be sent to the World's Fair along with other work. Another piece of work which is nearly completed is an improved planerchuck. This is an attachment used on a metal planer. It is graduated to be set at any angle and so designed that the pressure of the screw tends to pull the work down to the base at the same time that it is being clamped parallel to the base. In this respect the chuck has a decided advantage over any other one now in use in the shops. A small pattern maker's lathe has also recently been completed which will probably be included in the mechanical exhibit for the Fair.

The New York Botanical Garden, Bronx Park, New York City, will maintain a botanical laboratory in the Colonial Government buildings in Jamaica at the Cinchona Botanical Garden. The Department of Public Gardens and Plantations of Jamaica will cooperate. The buildings include a residence known as Bellevue House, three laboratories, two ranges of glass, and one or two small buildings suitable for lodgings. Facilities for research work are quite extensive. Students and professors and those interested have access to these gardens. Two months' residence will cost in the neighborhood of \$200.00.

Dr. Chas. W. Dabney, president of the University of Tennessee, has been elected president of the University of Cincinnati.

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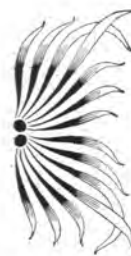
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## ABOUT THE CAMPUS.

Instructor Tower has been ill with the grip.

Dr. Beal has ordered 300 herbarium specimens from southern California.

P. H. Stevens is taking a literary course in the University of Chicago. His address is 5701 Drexel Ave.

Miss Bessie A. Earl has done the artistic work on the M. A. C. calendar. At present she is assisting Miss Holt in freehand drawing.

C. P. Parsons, stenographer for Prof. Taft since Aug. 1902, has resigned his position to take advanced work in shorthand in the Ferris Institute.

The shop engine has been overhauled. The bearings have been rebabbitted and many improvements made. Mr. Theodore has done the work.

Mr. Leonard has recently made some changes in the design of wood lathes built in the shop which will materially lessen the construction cost of this machine.

One of the dignified professors observed the fall of a student on the icy walks and remarked, standing still with astonishment, "The wicked stand in slippery places."

The Farmers' Club will meet at 6:30 Wednesday evening, Jan. 13, in the Agricultural Laboratory. An excellent program has been prepared. All are invited to attend.

The bath house has 278 lockers, very conveniently arranged. \$2.00 per year pays for locker and bath

house privileges. Nearly 500 are making use of the opportunities offered.

The machine shops have been connected with the Lansing circuit. The switch has been arranged so as to use the Lansing circuit or the College circuit. Connecting one disconnects the other.

The seniors in experimental laboratory work in engineering are testing a motor, a steam engine, a hot-air engine, a gas engine, an injector and are also writing up a boiler test.

The Try and Trust Circle of the King's Daughters will meet at Mrs. Weil's Jan. 20. The Pound Box is to be sent from this meeting. All members are requested to bring or send their pounds.

Two Seniors in agriculture are working along lines discussed by the now famous bulletin 22 of the U. S. Department of Agriculture. They are going to determine whether the solution content of water in the soil is constant.

The Sororian Society has elected the following officers for this term: President, Jennie Taylor. Vice President, Winnie Tyler. Secretary, Ione Casterline. Treasurer, Blanche Dwight. Record Editor, Grace McCollister.

The Juniors and Sophomores in agricultural chemistry do two hours of laboratory work every week with an option of four hours. 108 students are working in mineralogy, 121 are taking qualitative

analysis, 20 domestic science and 27 agricultural chemistry.

Murray & Co., the contractors for the new heating system, have begun excavating for the main tunnel from the Engine house to the Women's Building. The average depth will be about 18 ft. About four teams and ten men are engaged in the work at present.

W. A. Harris, formerly U. S. senator from Kansas, but now of Chicago, will speak at the Round-up Institute on Thursday, Feb. 25, on the Principles of Live Stock Breeding. Ex-Senator Harris is a forcible speaker and his experience in live stock work has been very extensive. He has a fine shorthorn herd and is considered an authority.

Mr. F. Robison, chemist of the Experiment station, has designed a very unique piece of apparatus for the extraction of fat by ether. The water is heated by coils of German silver wire, thus avoiding the danger of fire. It is designed to go with the well known Knorr apparatus. Alcohol can also be used when desirable.

Miss Mack, instructor in music, and Mr. R. J. Baldwin of the senior class chaperoned the senior sleighing party to B to 1st Friday evening. The load containing the chaperones lost their way. Evidently there was more serious business on hand than observing directions. All had a very pleasant time, though somewhat belated in their return.

An eleven o'clock party was given by the Sororian Literary Society on

Saturday evening, Jan. 9. Both the Feronian and Themian rooms were used for dancing, the intervening corridor having been transformed by oriental decorations into a reception hall. Excellent music was furnished by Messrs. Netzorg and Robinson, and a general good time is reported by all.

Secretary Brown, Architect Bowd and Prof. Weil met with the State Board of Charities and Corrections in Jackson on Jan. 7, and at that time the plans for the power house in connection with the new power plant were approved. This special work is now being advertised, and indicates the completion of two of the more important features of the plant, viz., house and tunnels, within a reasonable period.

The Southern States Lumber Company of Florida has sent the forestry department specimens showing the natural features of the Southern Hard or Georgia pine. There are 15 large cones and numerous branches with leaves eight to twelve inches long. Two cross sections showing the growth of the tree. A slab showing bark and a board in the rough. A section of a trunk that had been boxed for the purpose of collecting the resin. This last collection is donated by the company by which it is sent and forms a valuable addition to the department's growing collection. Over a year ago Prof. C. D. Smith furnished the departments with addresses and suggestions of which this collection of southern woods is a partial result.



James' book on Agriculture was adopted a year ago by the Granges of the State. It was felt, however, that something supplementary was needed. Accordingly, the State Lecturer wrote to Prof. Smith to see what could be done. The first bulletin has been prepared by Prof. Jefferey and treats of the corn crop. Its magnitude, uses, bushels per acre, salient points in growing and experiments are considered in a popular way. It is hoped that farmers will make trials and report results to the department.

The course in graphic arts at M. A. C. is given to the women in the junior year, fall term. Lectures are given on charcoal drawing, painting in black and white, both oil and water color. Wood engraving, etching, steel engraving, half-tone, photogravure and chalk-plate engraving receive careful attention. Each student makes a collection of illustrations from magazines and periodicals, advertisements, etc. Ye editor has had the pleasure of examining one or more of these and found them exceedingly interesting. From 75 to 100 illustrations are carefully arranged in a book. The students were able not only to name each illustration but also tell the processes used in the production.

The forestry department has recently received two lots of interesting specimens. One is from F. J. Phillips, '03, who is now in the Bureau of Forestry working on the reproduction of Eucalyptus in southern California. It consists of branches about three feet long showing leaves, buds, flowers, fruits and seeds of the Blue Gum, eucalyptus globulus; the leaves, buds, fruit and seed of the Sugar Gum, eucalyptus carynocalyx; a strip of eucalyptus bark some eight feet long. Specimen of the Monterey Pine and Monterey Cypress and Giant Cypress and of the California Sycamore. These specimens came by express and appeared as fresh as when taken from the tree.

Cornell University has recently acquired three new farms. These farms, with its campus and original farm give Cornell University about 460 acres of land, 275 of which are available for the use of its College of Agriculture.

### CHOOSING A PROFESSION.

The January Cosmopolitan has a series of articles on "Making Choice of a Profession." Among the writers is William Jennings Bryan, who sums up his opinion on the subject as follows:

"If a father is able to start his son in business with ten thousand dollars, what business is so safe as farming? Given a young man with a thorough education, good habits, willingness to work, and a desire to make himself useful, where can he fare better than on a farm? He can apply his brains to the enriching of the soil, to the diversification of his crops, and to the improvement of his stock, and at the same time give reasonable indulgence to his taste for reading and study. He will have all that contributes to health, vigor of mind and to cultivation of the heart—what occupation or profession can offer him richer rewards?"

We can heartily endorse Mr. Bryan's conclusion regarding agricul-

ture as a business. It holds out great inducements to the energetic and persistent, more so we thoroughly believe than any business or profession in which no more capital is required. Its opportunities and possibilities are growing far more rapidly than the world is progressing. The drudgery which once made the farm a last resort to many is being rapidly done away with. There is no other business in which there is more being done by the inventor and manufacturer to lighten labor and render it more productive than in agriculture. One man's labor can accomplish as much as five men's could fifty years ago in many branches of farming, and do it more easily.

Then each day sees the condition of the farmer improve. He is no longer the isolated being that knew little of the outside world. He is in touch with the whole country and really better informed on public affairs than the average mechanic who must labor every day for stipulated hours. The farmer converses with his city friends when he pleases, and can visit his neighbors for miles by the electric car at very light cost. The postman brings him his mail every day, and his center table is always filled with newspapers, magazines and the latest books. He has leisure to study and enjoy them to an extent not possible to the average resident of a city. Neither has he to suffer from the whims of others as do those who work in the shop or factory, or stand behind the counter.

Of all the trades and professions farming is the most independent—is more self-sustaining than any other. Other avocations are all more or less dependent upon the farmer; in fact they could not exist without him. There can be no prosperity without him, nor can there be absolute failure so long as he is doing business. We believe the future of agriculture promises more than any other vocation. Yet we would not recommend any young man, with a decided bent for some other avocation and no taste for farming to engage in it. He will never be contented, and the chances for success will be so reduced as to render the future very uncertain. It is best for the individual and the community that each one should follow the avocation for which he has the strongest inclination.

The individual will be more contented and willing to work if he likes his avocation than if he has neither taste nor aptitude for it. But the young man who has a liking for farming in any of its branches should never attempt to stifle it. No other vocation offers better inducement in the shape of freedom from care, good health, and fair returns for his labor than the farm. Nor is there any other place so well fitted for the raising and training of a family. In that respect it stands alone.—Michigan Farmer.

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## 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, Card. Engraved, Calling Cards, Fountain Pens, Pictures, Frames, Fine Framing a Specialty. New store. New Stock.

CITY BOOK STORE, Fountain Pens, Drafting Tools, Stationery, Card. 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.

WAGENVORDE & 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. KOSITCH & BROS., 113 Washington Ave. N., and 210 Washington Ave. S.

LOUIS BECK.—Clothing, 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. Miss Mae E. Mitchell, of Grand Rapids, Hairdresser. Switches made of cut hair or combings. New 'phone 118. 222½ Washington Avenue 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. LANDON. 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. New 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.