

Botanical Club.

The meeting of the Botanical Club last Tuesday evening was quite largely attended. The first number on the program was a biographical sketch of Dr. Amos Eaton, read by D. S. Bullock. He was followed by G. M. Bradford who spoke on "Greenhouse Ferns." The speaker first gave a brief account of the complicated life history of a fern and its classification in the vegetable kingdom. There are about 4,000 species of ferns in the world, mostly natives of the tropics. Michigan has 46 representatives of this family within its borders. Ferns have attractions and a beauty peculiar to themselves and are valuable for decorating purposes. It is only within the last few years that florists have recognized their importance. The culture of ferns is not so difficult as is generally supposed. They require a rather rich soil with plenty of broken crockery as drainage. Plenty of water and a warm damp atmosphere are required by most species.

The propagation of the spores is somewhat difficult, so the roots or crowns are usually divided to make new plants. Mr. Bradford's talk was illustrated by numerous specimens from the greenhouse and herbarium.

Prof. Wheeler will speak on "Leaves" next Tuesday night.

W. S. P.

Farmer's Club Report.

At the meeting of the Farmer's Club last Wednesday night, Prof. Smith gave a talk on "Beef Cattle." He described it under three heads—Breed, Man and Feed. He mentioned the different breeds and spoke of their adaptability to feeding in this State, and brought out very strongly the fact that nothing was to be gained, while everything might be lost in attempting to feed the Holstein and Jersey for beef. The cattle to raise for beef are the beef breeds—Shorthorn, Galloway, Angus and Hereford.

He also emphasized the fact very strongly that a man should not attempt to raise beef cattle unless he is fond of the business; he must go into it with his whole soul, bound to succeed; must have direct supervision of the work, and thoroughly enjoy seeing the great big sleek steers as they are eating or growing fat in the sunlight.

Everyone opened their eyes when he began to talk about feeding. He said that within the last year in traveling about the state and attending Farmers' Institutes he has become convinced that the coming feed to fatten steers with in this state is "silage."

His talk was followed by a very spirited discussion led by B. T. Hesse, followed by Prof. Mumford, J. J. Ferguson, "Dick" Harrison and others along the line of feeding. It was very interesting and instructive.

The meetings so far have been devoted to the consideration of topics relating to live stock, but it is the aim in the future to discuss any subject that is of value to the farmer.

J. H. S.

.. SPECIAL COURSE IN ..

GROWING AND TESTING BEETS

AND

THE CHEMISTRY OF THE SUGAR FACTORY.

From April 3d to May 25th, 1900.

✽ ✽

Under the Direction of FRANK S. KEDZIE, Adjunct Professor of Chemistry, A. N. CLARK, Instructor in the Chemistry of the Sugar Factory, H. S. REED, Instructor in the Chemistry of the Sugar Factory, J. D. TOWAR, Instructor in the Agriculture of Beet Production.

The Michigan Agricultural College will offer a special course in sugar beet and beet sugar production during the eight weeks beginning April 3d, 1900. The instruction given is intended for two classes of young men: First, for those who wish to become intelligent, rapid and accurate beet testers, to test beets as delivered to the factory by the producers; and second, for those young men who desire to become assistant chemists in the sugar factory. The following partial list of subjects taught will give a somewhat definite idea of the scope of the two different courses:



(A) Instruction for those who will test beets will consist of laboratory work on:

1. Preparation of reagents.
2. Use of hydrometer, saccharization.
3. Polarization.
4. Accurate methods of calculating results.
5. Determination of marc.
6. Determination of tare.
7. Distribution of sugar in the beet.
8. Preparation of samples for testing.
9. Care of apparatus.

(B) Instruction for those who wish to become assistant factory chemists will consist of laboratory work as given in (A), and in addition the following subjects:

1. Methods of analysis of gases, limestone, coke, coal, water, and other materials used in the factory.
2. Analysis of the juices at the various stages of the process of manufacture, diffusion juice, carbonation juices, wash, masscutes, sugar and molasses.
3. Analysis of cosettes, pulp, waste waters, and lime cakes.
4. Application of diffusion battery and three carbonations.
5. Work in testing beet seed for vitality and germination.

The laboratory work in both courses will be supplemented by lectures on:

1. The general process of manufacture of beet sugar and construction of factory.
2. The laws regulating the manufacture of beet sugar in Michigan and elsewhere.
3. The history of the development of the manufacture of beet sugar.
4. The soils best adapted to beets, tools and methods of sowing, cultivating, thinning and harvesting.
5. The feeding and manurial values of factory residues.

The work of the course will be largely in the Chemical Laboratory. The instruction in the practical factory chemistry will be given by a man who has had, during the past season, the chemical control of a factory, and who can therefore eliminate useless theory and economize the time of the students, by emphasizing the points with which the chemists of the factory come in daily contact. The instruction on the growing of beets will be given, as far as possible, by practical demonstrations in the fields of the farm department of the Experiment Station, and by a man who has had experience in growing the crop.

REQUIREMENTS FOR ENTRANCE.

It would be a decided advantage to all wishing to take a course in beet testing to have had at least one year's work in chemistry either in

college, or at some good high school. This, however, is not absolutely essential; and anyone having a good common school education will be admitted. In the course for assistant factory chemists, however, no one will be admitted who is not capable of demonstrating to the satisfaction of those in charge, that he has completed in a creditable manner at least one year's work in chemistry.

EXPENSES.

A matriculation fee of \$2.50, and a fee of \$2.50 to cover incidental expenses will be charged. Good board, with heated rooms, can be had near the College ground, or in Lansing, (with which there is street car connection), for three dollars per week. The total probable and necessary expenses, exclusive of railroad fare to Lansing and return, will be less than thirty dollars.

For further information address,
J. L. SNYDER, President.

New Plan for Work in the Y. W. C. A.

The College Y. W. C. A. has made a radical change in its method of conducting meetings. For some time its members have felt that the merely experience meeting is adapted to the religious needs neither of the individual student nor of the College unit. The world calls for a religion which shall master its questions, a religion which shall bind in one the warring energies of man and stand as spirit to thinker and poet. Christianity offers the answer; yet how many Christians take pains to discover it? How many Christians speak early with authority on that subject which cost the great teacher years of patient labor, suffering, and agony?

As the first step toward understanding what it believes, why it believes, and how it is to convince, the association proposes spending this year in a study of the history of the Christian church—seeking a fuller meaning for its Christian belief, a higher inspiration toward Christian living, in the self-renunciation of Christ, the intellectual strength of St. Augustine, the piety of St. Louis, the passion of Luther and Calvin. The work will centre around the following topics:

1. Life of Christ.
2. Persecutions of the early church.
3. St. Augustine.
4. St. Francis.
5. St. Louis.
6. Savonarola.
7. Corruption of the mediaeval church.
8. Luther.
9. Calvin.
10. Zwingli.
11. Knox.
12. The Scotch Covenanters.
13. Work of Henry VIII.
14. Bunyan.
15. Wesley; and if time permits,
16. Work of missionaries and Christian socialists.

Training is everything. The peach was once a bitter almond; cauliflower is only cabbage with a college education.—*Ex.*

THE M. A. C. RECORD.

PUBLISHED WEEKLY BY THE
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occasionally sent to those who have not sub-
scribed for the paper. Such persons need have
no hesitation about taking the paper from the
postoffice, for no charge will be made for it.
The only way, however, to secure THE RECORD
regularly is to subscribe.

Farmer's Institute Round Up.

A large attendance is expected at the "Round Up," which will be held at Ann Arbor, Feb. 27-8 and March 1-2. Reduced rates have been secured at the hotels and the railroads will sell tickets from all parts of the state at one fare for the round trip. Programs can be secured by addressing Supt. of Institutes Prof. C. D. Smith, Agricultural College.

The topics to be discussed have been grouped so that if time cannot be taken to attend all of the sessions, such as will be of most interest can be selected. The day sessions will be held in Newberry Hall and University Hall will be used in the evening.

The institute will open on Tuesday afternoon, when "The Soil" will be considered, the principal papers being by Dr. R. C. Kedzie, Prof. C. E. Marshall, Prof. J. D. Towar '85, Colon C. Lillie '84, and Roland Morrill.

On Wednesday morning there will be a conference of county delegates at 8 a. m. and the regular session will open at 9 a. m., when "Farm Crops" will be discussed by Prof. Towar, Mr. M. L. Dean, and by Messrs. Palmer, Croman and A. M. Brown of the institute workers.

Wednesday afternoon will be given to the consideration of "Fruit Culture" with papers by Prof. L. H. Bailey '82, Cornell University, Prof. L. R. Taft, S. H. Fulton '97, R. Morrill and J. N. Stearns.

Thursday morning there will be conferences of county delegates, and of beet sugar manufacturers with Dr. H. W. Wiley of the U. S. Dept. of Agriculture, and visits to the University and State Normal College.

"Sugar Beets" will be the topic for Thursday afternoon, the leaders in the discussion being Prof. Bailey, Dr. Wiley and Eugene Fifield.

On Friday morning "Cattle and Swine" will be considered, with papers by Prof. Mumford, C. C. Lillie, William Ball, John S. Gilbert, E. A. Croman and Instructor J. J. Ferguson.

The session on Friday afternoon will be devoted to papers on "Sheep and Horses" by Prof. Mumford, Dr. Waterman '91, A. B. Cook '93, A. M. Welch, Peter Voorheis, L. W. Oviatt, and Robert Gibbons of the Michigan Farmer.

The "Woman's Section" will meet on Tuesday and Wednesday afternoons. Among the speakers

will be Dean Eliza Mosher of the University, Dean Maud R. Keller, Miss Belle Crowe and Mrs. J. K. L. Haner of the Agricultural College, Miss Julia A. King of the Normal College, and Mrs. Mary A. Mayo.

The evening sessions on Tuesday and Wednesday will be devoted to educational subjects. On Tuesday, "Higher Education" will be discussed by Presidents Angell, Snyder and Leonard from the standpoints respectively of the University, Agricultural College and Normal College, and by Regents and Trustees Dean, Allen and Johnson.

Prof. Bailey will speak on "The Trend of Agricultural Education," on Wednesday evening; Dr. R. M. Wenley will give an address on "Co-operation in Education," and Dr. P. G. Freer will give an illustrated lecture on "Liquid Air."

Thursday evening the program relates to "Farmers' Organizations," and A. N. Kimmis will speak for the Farmers' Clubs and George B. Horton for the Grange. Papers will be read by Secretary A. C. Bird '83, and Ex-Gov. Luce. Dr. H. W. Wiley will also give an address on "The Manufacture of Sugar from Beets."

Athletic Notes.

The preliminary contest for the purpose of determining a part of the spring track team will be held in the Armory on Friday, March 16, at 7:30, and will comprise the following events: Shot put; running high jump; running broad jump; standing broad jump; running hop, step and jump; pole vault; high kick; wrestling. This leaves about four weeks of good, steady practice before the final weeding out. Weekly contests will take place every Saturday at 3:30 for the rest of the term, so that the athletes may get used to competing.

An extra good vaulting block has been put in, and the pole vaulters have now begun regular practice.

A large folding hat and coat rack is supplying a long felt want in the armory.

Heavy wire screens on all the windows will be in place the first of this week, converting the Armory into a large baseball cage. Batting practice will now be a special feature of the baseball training.

The girl's basket ball team had a practice game with the Lansing High School team in the Armory Saturday at 4 o'clock. The down town team were at a disadvantage in not having practiced with section lines, and therefore made more fouls than M. A. C.; but even counting out the points made from fouls, the M. A. C. girls made one more goal from the field than Lansing.

It was a very good game and thoroughly enjoyed by the privileged few who saw it. Fifteen minute halves were played. At the close of the first half the score stood M. A. C. 9, Lansing 6. At the end of the game the score was 16 to 11 in favor of M. A. C. It was the first game which either team had played this season with an outside organization, and the girls certainly put up an excellent game.

Both teams hope to play again.

C. O. B.

The worst and most unendurable of all our ills, are imaginary ones.

He dines sumptuously who dines out of debt.

Valentine Party for Seniors.

Prof. and Mrs. Smith's annual entertainment for the senior class was given last Wednesday evening. It was a Valentine party and was enjoyed by about sixty people, including the seniors and their friends. Prof. and Mrs. Vedder, Mrs. Ella M. Kedzie, Miss Pearl Kedzie, and Messrs. J. J. Ferguson and D. J. Crosby, Misses Holt, Kinyon, Phillips and Kelley assisted in the dining room.

Early in the evening the young people went in parties of twenty to the dining room for refreshments; the others meanwhile enjoying games. After the repast all took part in disentangling a complicated spider's web which contained a valentine or other present for each guest. By twos they went unwinding the threads of the web until they came to the valentines in places far distant from the starting points. It was a jolly crowd and they had a merry time.

Oratorical Contest Friday Evening.

The eleventh annual oratorical contest between representatives of the various College literary societies will be held in the armory next Friday evening. Following is the list of subjects and speakers:

"John Milton," G. M. Bradford, Eclectic Society.

"The Anglo-Saxon and His Destiny," G. M. Odium, Olympic Society.

"Progress,—The Watchword of Today," Miss S. Gertrude Lowe, Feronian Society.

"A Modern Problem in Taxation," J. B. Strange, Columbian Literary Society.

"The Trust as a Weapon of Socialism," Paul Thayer, Union Literary Society.

Shop Notes.

Messrs. Wm. Ball and C. W. Bale of the mechanical department have decided upon the gas engine as the subject for their joint thesis. A Wolverine gas engine is to be sent here from Grand Rapids for the purpose.

The same subject will serve for the thesis of Messrs. L. L. Appleyard and F. W. Dodge. They are to experiment upon a Bates & Edmonds gas engine.

The thesis of H. B. Gunnison will be the studying and designing of a heating system for the M. A. C. hospital.

Dairy School Notes.

There are now fifteen men enrolled in the course in cheese-making; besides those already at work, there are a few who have signified their intention of taking it, but who have not yet appeared. It is expected that, as it was with the creamery course, several may yet come in to bring the number close to twenty, which is the limit of present accommodations.

An eloquent tribute to the worth of our special course, is the fact that over seventy per cent. of the men enrolled have been actually engaged in cheese-making for periods of from one to eleven years. This shows that they look to the College for the solution of many of the difficulties of which a man becomes aware only by actual practical work. The oldest student in the class was here last year, and he expects to be

with us again next winter. He is Mr. R. J. Willis of Farmington. At the recent State Dairymen's Convention in Detroit he took the first premium on his November cheese which scored 98 and second on August cheese with the creditable score of 96.

Mr. E. L. Aderhold, of Neenah, Wis., one of the Field Dairy Instructors of that state, who has for the last two years given the instruction in the practical work of our cheese course, is back at his old post. With his long and varied experience he is splendidly equipped for the position.

The sophomores began their dairy work on the 12th inst. College people should remember for the next six weeks that they are using sophomore-made butter. The present quarters are much too small to accommodate the large sections of regular and special men, but there are no complaints.

A tub of the butter made by the creamery-course men, shipped to Barber & Co., Chicago, was scored 96½, while a tub sent the first week of the course scored 89½—the difference before and after taking.

J. J. F.

Co-ed Personals.

Miss Martha Rich spent Saturday and Sunday at her home in Ionia.

Miss Alice Shaw has returned to College.

Miss Grace Townsend was called home Wednesday, February 14, by the death of her grandfather.

Miss Gertrude Van Loo spent Saturday and Sunday at her home in Zeeland.

Miss Anna Chandler has been ill with a severe cold.

B. A. K.

Hesperian Society Entertainment.

Last Saturday evening the Hesperian Society entertained lady friends at their regular literary meeting. After the program had been rendered, the time was spent in dancing until 10 p. m. A very pleasant time was enjoyed under the chaperonage of Mrs. W. O. Hedrick. After the visitors had separated the regular business meeting was called.

M. B. H.

Delegates to Y. M. C. A. Convention.

The Y. M. C. A. of the College will be represented at the State Convention at Kalamazoo Feb. 22d to 25th, by the following delegates: Geo. Severance, A. G. Craig, G. W. Gutekunst, B. T. Hesse, R. G. Thomas, G. J. Moore, A. D. Burdick, C. H. Parker, H. G. Driskel, A. H. Hayes, and Prof. Bemies. The Quartet will assist in the singing of the convention.

A. H. H.

Washington's Birthday Exercises.

The anniversary of Washington's birthday will be celebrated at the College by appropriate exercises. Prof. Bradley Thompson of the University of Michigan will deliver the address and Judge C. B. Grant of the Supreme Court will preside. Music will be furnished by the chorus class and by the College cadet band. All members of the College population are invited to be present. At the armory, promptly at 2 p. m.

At the College.

No classes Thursday, Feb. 22.
H. A. Williams with '98 called on college friends last Friday.

Prof. U. P. Hedrick was on the sick list a couple of days last week.

Oliver Edgar with '01, made College friends a short visit last week.

All the young ladies at her table in Club C. received a valentine from Miss Keller.

S. B. Hartman '03 has gone home for a few days to recuperate from his recent illness.

E. W. Ranney '00 received a visit last week from his sister, Miss Carrie Ranney of Belding.

Prof. C. O. Bemies preached at the Presbyterian church, Lansing, Sunday morning and evening.

Gerald Cheney '03 who has been sick for a number of days went home last Friday to stay for a week.

Born to Mr. and Mrs. W. O. Beal Friday Feb. 9 a son. He has been given the good old family name, Charles.

Mr. A. H. Taylor from the North Western University has been employed to assist Prof. Atkins in the Physical Department.

Prof. H. K. Vedder will spend the coming summer vacation in Europe; Mrs. Vedder and children visiting in New York state.

Saturday D. A. Keeler '02m, while working in the shops, received quite a severe cut on the arm from a stick flying back from one of the saws.

The King's Daughters will meet with Mrs. Weil Wednesday, Feb. 21, at 3 o'clock. Lesson, Luke 2nd chapter. Text, Joy. Leader, Mrs. Vedder.

D. J. Crosby has resigned his connection with THE RECORD. The work of carrying on the paper has been placed in charge of a committee from the faculty.

Mrs. Jessie Beal Baker and family, together with Miss Fay Wheeler, are expected at their respective homes on the campus within the next three weeks.

Pres. Tanner of the Utah Agricultural College has resigned. The papers of the state are favorably mentioning Prof. E. J. MacEwan, formerly of M. A. C., as his successor.

J. F. Baker '92 has received the offer of a position which will take him to the Yellowstone National Park to spend his coming summer vacation. He will accept.

G. M. Odlum '00 who has been quite seriously sick with rheumatism is somewhat improved. His father and mother, who have been with him, are in hopes to be able to take him home with them in a few days.

Instructor B. O. Longyear, by request of the Detroit Mycological Club went to the Michigan metropolis on Friday last, for a second talk, this time concerning "Puff Balls and their Allies." No abstract or report of the paper will be given at this time, as Mr. Longyear will repeat it before the Natural History Society in March. The subject was fully illustrated by numerous specimens and superb original charts.

The committees having in charge the arrangement for the annual

junior hop are planning to make it the leading social event of the year. It will be given in the new armory, Lansing, Wednesday evening, Feb. 21.

The room of E. W. Ranney '00 in Wells Hall, was the scene of a pleasant social event last Tuesday evening, when the "Callithumpians" gave one of their old time banquets in honor of Oliver Edgar with '01.

Prof. Smith attended the Springport institute last week and Secretary Bird and Prof. Towar were at Coldwater. They report a large attendance at both places, the average number at each session being about 250, and the discussions were lively. The feeling towards the College was very kindly and its work was commended. Prof. Towar also attended the institutes at Chelsea and Horton.

Chapel exercises Sunday morning were conducted by Rev. E. W. Hunt of Lansing, his theme being Look to Jesus. The leading thought was that every young man or young woman, in order to live the best life it is possible for them to live, must ever look to and pattern after that greatest and noblest character the world has ever known, Jesus Christ.

Secretary Bird's Annual.

The report of the Michigan State Board of Agriculture for 1899 has been received from the State printer, and is being distributed from the secretary's office. It is a volume of four hundred and sixty-five pages.

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News from Graduates and Students.

Harry H. Hunter with '91m, is a general merchant at Mt. Pleasant, Mich.

Guy C. Van Alstyne with '96, is secretary for R. A. Whitehead & Co. at Grand Rapids, Mich.

William Treadwell with '02, recently accepted a position with J. C. Vaughan, seedsman, Chicago, Ill.

L. C. Leeds with '63, is Deputy Collector of Internal Revenue stationed at 111 Veal St., Dallas, Texas.

Clarence W. True with '00m, is in the real estate and insurance business at 204 Superior St., Cleveland, Ohio.

Albert N. Irwin with '98, is a second year student in veterinary medicine at the Ohio State University.

W. G. Amos '97m, who represents the Murphy Iron Works of Detroit at Chicago, reports the arrival of a son.

John W. Perrigo '94m, is draughting for John S. Metcalf Co., grain elevator builders at 1075 West 15th Street, Chicago, Ill.

Maurice Carney with '94m, is employed in Milwaukee, Wis., as a designer of electric cranes. Address 558 Milwaukee St.

H. A. Eldridge with '98 was married to Miss Inda Madison, Thursday, Feb. 8, at Elmira, Mich., where both young people reside.

Earl H. Dresser with '84 in addition to his duties as general manager, is secretary of the Litchfield Manufacturing Co. at Litchfield, Mich.

M. G. Kains '95 read a paper on "The Effect of Electric Light on the Growth of Lilies" before the Washington Biological Society, Saturday, Feb. 10.

At a recent joint meeting of the Washington Academy of Science and the other scientific societies in Washington, L. J. Briggs '93 gave a talk on the "Chemistry of Photography."

William F. Bernart with '95 graduated at the Detroit Medical College last May, and is Acting Assistant Surgeon in the U. S. Army, stationed at Army and Navy Hospital, Hot Springs, Arkansas.

Dwight S. Cole '93m has become a member of The Breustine-Cole Co., at 355 Adams St., Brooklyn, N. Y., Mr. Cole being manager for the firm. Their work is to develop and perfect inventions, make models and do all sorts of expert and experimental mechanical work.

Harold W. Force with '98 is one of the firm of R. B. Loveland & Co., wholesale produce dealers, Lowell, Mich. His mother writes that he has been traveling in the south in the interest of the company and has met with good success. Since Jan. 1 he has been confined with rheumatism at New Orleans. His father has gone to bring him home.

Lewis S. Munson '97 finds his work in connection with the Chemical Division of the U. S. Department of Agriculture at Washington very interesting. At present they are carrying on some very extensive experiments in testing various preservatives used in canning meats, and in finding methods of detecting adulterations. They find that horse flesh is often put upon the market as beef.

Faculty Action on Athletics.

All regular first and second football, basketball and baseball teams shall be excused from military drill; also the track team in the spring term; said team to be determined by a preliminary contest at the close of the winter term in such events as can be held indoors, the remaining events to be contested out of doors as soon as possible in the spring term. The first two and a possible close third in each event shall form this team.

Officers above a corporal who accept appointments in the middle of the winter term shall not be excused from drill in the spring term.

This will not prevent them from competing or training for intercollegiate field day, providing such work will not interfere with their duties as officers. Under this ruling those excused from drill will be qualified by actual ability; and athletics in this connection will be considered as an equivalent.

The scholarship requirements remain the same, and no one having more than two conditions will be allowed on any athletic team. If such conditions are against a track athlete in the spring term, he must work off his conditions and train without excuse from drill if he wants to enter the team.

Every person who visits the College, provided he was ever a student here, is expected to go before A. B. Krentel at the Botanical laboratory and testify as to his knowledge of any student not recently heard from.

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BOOTS AND SHOES.

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

BICYCLES.

GEO. H. RICHMOND. Pierce Cycles. Full line of sundries. Repairing and renting at reasonable rates, 200 N. Washington Ave.

CLOTHING.

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

A. E. DAVIS.—Clothing and Gentlemen's Furnishings. See ad.

CROCKERY AND GLASSWARE.

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

DENTISTS.

R. W. MORSE, D. D. S. Hollister Block, Room 517.

D. R. DAWLEY, M. D., D. D. S. Office over Postal Telegraph Co., Michigan and Washington aves.

D. E. PARMELEE—Dentist, 218 Washington Ave. south. Opposite Hudson House.

DEPARTMENT STORE.

DONSEREAUX'S DEPARTMENT STORE is the place to trade. You can get a warm lunch in our cafe for 10c.

DRUGGISTS.

ALSDORF & SON—The Druggists. Two stores, 102 Washington Ave. N., 335 Washington Ave. S. See ad.

C. J. ROUSER—Capital Drug Store, 123 Washington Avenue South.

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.

GOTTLIEB REUTER.

Washington Ave. South.

DRY GOODS.

SIMONS DRY GOODS COMPANY.—Dry Goods and Carpets. See ad.

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.

GROCERS.

R. B. SHANK & CO., 200 Washington Ave. S. The leading grocers. Both phones. Daily delivery to the college.

HACK AND BAGGAGE LINES.

M. A. C. STUDENTS—Don't forget W. H. PORTER, the Hack and Liveryman. Rubber tires a specialty. 300 Capitol Ave. S. Both Phones.

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) 108 Mich. Ave. West. All kinds of the best insurance. Strongest agency in city.

JEWELERS.

B. P. RICHMOND—Watchmaker, Jeweler and Engraver. 200-202 Washington Avenue N.

LAUNDRIES.

THE VANGORDER PALACE LAUNDRY. College agents, C. H. Hilton, 97 Wells; Irving Gingrich, 47 Williams. S. P. Lantz, Prop.

LUMBER DEALERS.

H. W. RIKERD.—Lumber Dealer. Mill Street. See ad.

MERCHANT TAILORS.

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

JOHN HERRMANN'S SONS. Fine Tailoring. 218 Washington Avenue N.

OCULISTS.

JOSEPH FOSTER, M. D.—Eye, Ear, Nose and Throat. Hours 9 to 12 A. M. City National Bank Building, Lansing.

PHYSICIANS.

A. D. 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 419 Seymour St.

D. R. J. M. COLLIER.—123 Washington Ave. south. Office over Capital Drug Store. Residence 310 Seymour St.

RESTAURANTS.

GILBERT M. HASTY.—Proprietor Hasty's Gem Lunch. Best meals and lunches in the city. Quiet place for ladies. 118 Wash. Ave. S.