

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 10.

LANSING, MICHIGAN, TUESDAY, DEC. 13, 1904.

No. 13



FOOT BALL SUMMARY FOR 1904.

The 1904 foot ball team, a cut of which we present in this issue of the RECORD, will go down in history as one of the strongest, if not the strongest team ever developed by any of the Michigan colleges.

The success is due not only to the members of the team but to the loyal scrubs who worked through the season, and to the support given by the student body.

Beginning the season with five of last year's regulars and three substitutes as a foundation, the team developed exceedingly fast. The difficulty to be overcome, however, was the lack of heavy material. A half-back was made to play center and two 170-pound guards were facing men the whole year who outweighed them from 20 to 50 pounds. The team as a whole, was the lightest in the inter-collegiate with the exception of Hillsdale and possibly Alma.

What was lacking in weight however was more than made up in speed, team work and a willingness to work.

Our neighbor, Ohio, sent up a team which scored 467 points during the season and was not defeated in her own state. She was buried under five touchdowns. The M. I. A. A. record was broken when, in 45 minutes of play against Hillsdale 18 touchdowns for a total of 104 points were scored. Olivet, Alma and Kazoo, our old rivals, were all snowed under by large scores.

The only blot on the record was when Albion, in an early season game, with 20 pounds per man in her favor and the field a sea of mud

scored a goal from the field, while neither side could cross the other's goal line.

Comparative scores, however, show something of the comparative strength of the two teams on good field. Against the All-Fresh, Albion scored 0, M. A. C. 39; against Olivet, Albion 36, M. A. C. 35; against Kazoo, Albion 44, M. A. C. 58; against Alma, Albion 27, M. A. C. 40.

The team was made up as follows:

H. B. McDermid, junior mechanical, center; first year on the team, a hard, conscientious worker. J. E. Fisk, left guard, and G. P. Boomsliter, right guard, both junior mechanicals, and both playing their first year on the team; good guards and will make exceptionally strong men next year.

R. F. Bell, captain and left tackle, senior mechanical; his third term on the team and one of the best ground gainers.

"Old Reliable" Frank Kratz, senior mechanical, and right tackle for four years; all that his nick name implies both on defense and with the ball, and the best beloved man on the team.

W. Holdsworth, freshman mechanical, weighs but 140 pounds, and his first year on the team, but the most consistent ground gainer.

A. Ashley, sophomore agriculture, and playing his second year; exceptionally strong on defense and in making openings.

W. H. Small, quarterback for his second year; handled the ball clean and fast, and excellent general and star interferer.

E. B. McKenna, captain for 1905, played right half back. His third

year on the team and ranks as a Junior mechanical. The best open field runner on the team and in catching and returning punts.

H. D. Hahn, left half back. First year on the team. Heavy and fast and a sure and consistent ground gainer through the whole season.

S. W. Doty, Soph. in Forestry. Second year as regular full back. Most conscientious worker on the team, good line buckler and star at backing up the line on defence.

Of the substitutes Babe Kratz was in nearly every game during the season. An excellent man at following interference and next year will be a star. He ranks as a freshman. Ralph Graham, G. Boyle, H. A. Wright, D. Burke and C. A. Lemon also were in several games and will prove good next year.

The scores:

M. A. C.	47	Flint	0
"	28	Ohio	6
"	29	Pt. Huron	0
"	0	Albion	4
"	104	Hillsdale	0
"	39	All-Fresh	0
"	35	Olivet	6
"	40	Alma	0
"	58	Kazoo	0

380 16

The schedule for next year is already under way. Negotiations have been opened up with Ohio, Notre Dame, Oberlin and De Pauw and probably three of them will be on the schedule. A game with North Western is also a possibility. These, with the five games in the M. I. A. A., will give us something worth striving for.

Of this year's team and substitutes 10 or 11 will return, who with the good second team men and the

ALUMNI.

'01.

H. S. Putney, of Sanilac Center called on College friends the past week. Mr. Putney is vice-president and treasurer of an establishment which manufactures steel culverts. He reports a very prosperous business.

On Dec. 7, Co. K., 11th Inf., of which M. L. Ireland is 2nd Lieutenant, left Fort Niobrara, Nebr., for Fort D. A. Russell, where they will be stationed for some time. Fort D. A. Russell is situated about four miles from Cheyenne, Wyo.

R. S. Northrop goes to Utah as full professor of horticulture instead of instructor as stated last week.

'03.

F. M. Morrison, who is in the Manual Training Department of the Kittanning public schools, Penn., recently sent to the horticultural department some very fine samples of the Northern Spy and Baldwin apples. Mr. Morrison states that agriculture and horticulture are not followed to any great extent in this part of Pennsylvania, the principal industries being coal mining, oil wells, glass making, pottery, and steel plants.

'04.

Paul Pierce is with the Peninular Manufacturing Co., of Ann Arbor, Mich. His address is 509 Fifth Ave., S.

J. H. Prost is employed by O. C. Simons, Landscape Gardner, Chicago, Ill.

George C. Morbeck, of Ingalls, writes very pleasantly of his work during the past summer on the State Forest Reserve. There were six in his party, Mr. Sanford, '04, being one of the number. He states that their work of surveying and mapping land was most pleasant, but somewhat interrupted on account of the abundance of rain.

W. J. Wright of Pasadena, Cal., writes very pleasantly of his work in the west. Mr. Wright is connected with the Pasadena Daily News as agricultural editor and reporter. He states that in this work he is brought in touch with the most prominent fruit growers of that section which affords an opportunity for further study along his chosen line. Mr. Wright wishes to be remembered to his M. A. C. friends.

unknown new material gives promise that the 1905 season will be a banner one.

ALL M. I. A. A.		
L. E.	Holdsworth	M. A. C.
L. T.	Conville	Albion
L. G.	Betts	Olivet
C.	Angell	Alma
R. G.	Leonard	Albion
R. T.	Kratz	M. A. C.
R. E.	Giddings	Kazoo
Q. B.	Small	M. A. C.
L. H. B.	Schenck	Alma
R. H. B.	McKenna	M. A. C.
F. B.	Bliss	Albion

THE M. A. C. RECORD.

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

B. A. FAUNCE, MANAGING EDITOR.

ASSOCIATE EDITORS.

PAULINA RAVEN, '05.

ALTA GUNNISON, '05.

CALLA KRENTEL, '07.

ROY POTTS, '06.

HARRY HOGUE, '06.

T. H. MCHATTON, '07.

DALTON MOOMAW, '07.

O. I. GREGG, '07.

BERENICE MAYNARD, Sp.

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TUESDAY, DEC. 13, 1904.

ONLY three more days and then vacation." We feel safe in making this a quotation as it will doubtless be repeated a great many times tonight. Already the packing has begun and arrangements are being made for the pleasant trip home. Nor will the arrangements be confined to students. In many a home throughout the state preparations are being made for the return of the boys and girls who for thirteen long weeks have been absent from the home fireside, and everything possible will be done to make this home coming pleasant. Do we appreciate all that is being done for us by father and mother? If so let us tell them about it. It will do them more good than costly presents.

We trust that all may enjoy the short vacation and come back refreshed and ready for duty on January 3. We extend to all our friends a very Merry Christmas and Happy New Year.

Y. W. C. A.

Katherine McNaughton led the Thursday evening meeting, which was a prayer and song service.

NOTICE.

In last week's RECORD the notice of the granting of students' certificates for holiday rates should have read Dec. 15 instead of Dec. 22.

LOST.

Somewhere between the postoffice and Women's Building, a gold and white enamel diamond shaped pin with "F. H. S. '02" on it. Finder please leave at Secretary's office.

FARMERS' CLUB.

The last meeting of the Farmers' Club for this term was held last Tuesday evening. Mr. H. C. Bucknell read an interesting paper on the "Work of the United States Department of Agriculture." Instructor McWethy and Mr. Hoopinger, delegates to the annual meeting of American Confederation of Students of Agriculture, gave a very interesting report of the meeting.

UNION LIT. PARTY.

The members of the Union Literary Society entertained their lady friends at an eleven o'clock last Saturday night. The rooms were prettily decorated, and no pains were spared in providing for the enjoyment of the guests. Mr. and Mrs. Craig acted as chaperons.

HORT. CLUB.

At the last regular meeting of the Hort. Club Mr. C. A. McCue gave a very instructive and practical talk on the pear and peach in cold storage.

The officers elected for next term are: H. C. Oven, President; O. B. Burrell, Vice-President, and Mr. C. A. Pratt, Secretary.

The American Blush apple was passed around and enjoyed by all. The meeting was well attended and the interest was good.

THE M. A. C. ELECTRICAL CLUB.

The engineering students of all classes met last Tuesday evening in the lecture room and completed the organization of the M. A. C. Electrical Club. A constitution was drawn up and adopted and officers elected. Much interest is shown and everything points to a permanent and profitable organization.

The officers elected are as follows: W. Wilson, '06, Pres.; F. Born, '07, V. Pres.; J. E. Fiske, '06, Sec.; H. I. Glazier, '07, Treas. After the election of officers Mr. Fiske read an article entitled Man Power. The meeting then adjourned until next Tuesday evening.

Y. M. C. A.

The Thursday evening prayer meeting was led by Mr. O. K. White, assisted by Mr. Warden. They spoke on some of the higher virtues of the Christian life—purity, honesty, and uprightness, and brought out suggestions as to how these might be attained. The suggestions were practical and helpful to all.

Rev. R. C. Dodds, of Lansing, conducted chapel exercises Sunday morning. His text was from Mark XIV:8, "She hath done what she could," and he brought out many suggestions and helpful thoughts from this act of Mary in anointing the Master.

The union meeting Sunday evening was led by Rev. Dr. Edwards. His theme was, The certainty of the plan of salvation and the duty of men under this plan. Some very happy references were made to the Christmas tide, which were appreciated by those in attendance.

DEBATING CLUB.

The last debate of the fall term was held Thursday evening, Dec. 8th. The question under discussion was, Resolved, "that Labor Unions have been beneficial to the interests of the United States." The opposing teams were supposed to be composed of members of the senior class, but on account of the inability of one of the members to appear, Prof. W. O. Hedrick kindly filled the vacancy.

The affirmative speakers were Mr. C. A. Reed assisted by Mr. J. E. Schaefer. The negative were Mr. E. C. Place and W. O. Hedrick.

The ballots favored the affirmative, two to one, while the critic, as well as general sentiment, appeared to lean toward the negative.

The following officers were elected for the ensuing term:

Pres., Mr. N. J. Smith.

Vice Pres., Mr. M. J. Dorsey.

Secretary and Treasurer, A. N. Robson.

Program Com., H. C. Oven, R. C. Potts, O. B. Burrell.

Critic, Prof. Gunson.

THE STORAGE BATTERY.

The storage battery recently purchased by the Department of Physics and Electrical Engineering arrived last week, and was set up by Mr. Rahe, manager of the Tray Plate Battery Company, of Binghamton, N. Y. Mr. Rahe was at the College on Friday and Saturday when he installed the apparatus. It is proposed to keep the battery charged by means of the rotary converter, taking current from the alternating current lines. The advantages claimed for this particular type of battery is that it is entirely enclosed in a glass case and the volts being horizontal, no fumes are given off. It is arranged in two piles, each pile giving 55 volts. This battery will furnish 100 amperes per hour if necessary, and a smaller quantity a much longer time; even four or five hundred amperes could be drawn from it for a short time at 110 volts. If the two piles are connected in parallel, 1,000 amperes could be drawn off for a short time without injuring the battery at all. It will take from 30 to 40 amperes normally to charge it.

Mr. Rahe while here gave a talk before the juniors and seniors on the use of storage batteries.

THE LECTURE COURSE.

There are yet four numbers on the M. A. C. Entertainment Course, any one of which we can ill afford to miss. The first number after the holidays, Montville Flowers in his interpretive recitals from masterpieces, will be given Jan. 6. Among those who speak very highly of Mr. Flowers' work are: Gen. Lew Wallace, Dr. Gunsaulus and John Temple Graves.

The second number, on Feb. 21, will be Loado Taft, Sculptor. His lecture "A Glimpse of a Sculptor's Studio," or "How Statues are made," will not fail to please, and everyone should make it a point to be present.

Dr. Herbert L. Willett of the Chicago University will be with us on March 20. The demand for Dr. Willett on the lecture platform has become very strong and wherever he has spoken the press have no lingering but words of praise for his work. Among his subjects are: "The Man of Nazareth," "New Continents," "Dante, The poet of the Dawn," etc.

Everybody will, of course, want to hear the Dunbar Company—Male Quartette and Bell Ringers. These who have once heard them state that they will not miss this opportunity; so, surely, those of us who have not heard them cannot afford to do so.

If there are those who have not as yet purchased a season ticket for the Lecture Course, now will be a good time to do so and thus get four of the very best numbers on the whole course. The price will be only 75 cents for the remaining numbers, and it is hoped that those who do not at present have tickets will take advantage of the offer.

THE EUROPEAN LARCH.

The M. A. C. RECORD of Nov. 29 had a short notice in regard to European larch, which stated, "The larch in this country seems apparently worthless for forestry purposes as those put out die off very rapidly." This statement, I suppose, was based on the experiment tried by Dr. Beal in the Arboretum. While the larch is not by any means the best tree to plant to get the best results, still the following figures show that even with the larch, profitable results can be obtained:

In 1875-6 Dr. Beal planted 071 acres to the larch. Some of these were cut this fall. In the intervening 28 years, 68 trees, ranging in size from 4 inches to 16 inches in diameter, and averaging 50 feet in height have reached maturity. These trees make 723 37 cu. ft. or 25.83 cords of 16 in. wood. At this average on a whole acre, there would be 363 cords or 13 cords per acre per year.

When they were set out 28 years ago Larch was not worth one cent a cord on the stump; now it is worth \$1.00 per cord and growing, making the 363 cords on the acre worth \$363. At the rate the price of wood and timber is climbing, if an acre be planted to Larch this year, what will it be worth 28 years hence? This arboretum which Dr. Beal planted 28 years ago is a practical demonstration and contains much food for thought.

GEORGE F. TALLADAY, '05, For.

'84.

The name of Colon C. Lillie has been mentioned in connection with the appointment of deputy in the office of the Food and Dairy Commission.

'88.

W. M. Munson, '88, is horticulturist in the Agricultural College at Orono, Maine. *The Maine Farmer* has this to say concerning the station orchard at Orono: "We wish that every one purposing the planting of an apple orchard, or who now has the care of one, would look over this orchard. The time required would be spent to a good purpose. The orchard is in charge of Prof. Munson, Horticulturist to the College of Agriculture and the experiment station. * * * Every tree is in perfect health and the bark smooth and the foliage rank, full and healthy. Any person having an eye for a fruit tree cannot fail of the feeling that there is seen perfection itself. Hardiness, however, important as it is, is not sufficient in itself alone to keep these trees in their present healthy and thrifty condition. The land is kept under cultivation, cover crops are grown and plowed in each spring, and the trees regularly sprayed. It is this combination of culture with hardiness that brings forth the perfection of condition and of fruitfulness seen in this orchard. Any fruit grower will find an instructive object lesson in visiting it."

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ABOUT THE CAMPUS.

President Snyder returns today from his Washington trip.

Wonder if we are not going to have sleighing for Christmas?

Born, to Mr. and Mrs. L. F. Newell on Friday, Dec. 9, a son.

Mrs. A. C. Bird has returned from a visit with relatives in New York City.

The program for the winter term will be ready for distribution on Thursday or Friday.

Secretary Hurst, Y. M. C. A., goes to Alma the latter part of the week for a few days visit.

The work on Dr. Hagadorn's new house is moving along finely and it will soon be enclosed.

Until further notice The Try and Trust Circle of King's Daughters will meet at 2:30 p. m. instead of at 3:00.

S. W. Horton, '08, has returned from his home at Fruit Ridge, where he has been for some time on account of illness.

W. D. Fraser who has been in the hospital at Ann Arbor for some time as a result of an accident during a baseball game here a year ago, visited College friends Sunday.

A student was recently heard to remark that he had heard so much about oosphere, oospore, oogonium and oospora that all he had in his head was a long string of zeros.

Prof. Jeffery will do institute work at the following places this week: Grayling, West Branch and

Gladwin. He was at Wolverine, Cheboygan county on Saturday of last week, where he held an institute.

Prof. Pettit is in the hospital at Ann Arbor, receiving treatment for his knee. There is a possibility that amputation will be necessary, in which case he will be absent several weeks.

The seniors who have been taking electrical engineering this fall are arranging to form an organization next term for the study of special electrical matters, somewhat along the line of their studies.

The stewards of the various clubs elected for next term are as follows: Club A, S. Armstrong; Club B, O. Burke; Club D, A. J. Anderson; Club E, S. B. Lilly; Club G, A. Z. W. Wilson; Club H, P. Boomsliiter.

Mr. S. C. Root, of the Solvay Process Co., formerly with the American Blower Co., addressed the students of the upper classes in engineering at 4:00 o'clock on Friday afternoon of last week. He gave a very interesting talk on fan heating systems.

On account of the crowded condition in the mechanical department, especially with the sophomore class where the number in the shop is 100 per cent. greater than last year, it will be necessary during the winter term to move the testing machine and other apparatus out of the front of the building and use the entire available room for drawing purposes.

State Senator Jenks, of Harbor Beach, made a trip to Lansing during the past week to make arrangements for rooms for himself and Mrs. Jenks during the coming session of the legislature. While in the city Mr. Jenks called on his son, B. W. Jenks, '08. Mr. Jenks is interested in the Huron Milling Company and the Mihlethaler Co., Ltd.

Prof. Taft announces institutes for the next two weeks as follows: Two-day institute.—Hersey, Dec. 13-14; Luther, 14-15; Mendon, 15-16; Elmira, 16-17; Harbor Springs, 19-20; Charlevoix, 20-21; Holton, 19-20; Casnovia, 21-22. One-day institutes.—Duplain, Dec. 13; Victor, 15; Eagle, 16; Cranston, 17; Mears, 19; Ferrv, 20; Walkerville, 21; Hesperia, 22; Galesburg, 21; Bellevue, 22; Dimondale, 23.

Near the close of the last College year the question of a summer school at M. A. C. was taken up. Notice of the same was given in the RECORD, and a number of inquiries were received, but not in sufficient numbers to warrant the opening of such a school last year. The work to be given would consist of wood shop, drawing and the like—something for those about to take up manual training, and for engineers, mechanics, and others who desire some special training.

The matter is taken up at this time with the idea of securing at an early date the opinion of those interested in the work. The action of those who have the work in hand will be based during the summer on

the inquiries received during the winter. Careful note will be made of the interest manifested in the inquiries which come in, and if a sufficient number desire the work notice will be made in the RECORD to that effect.

'90.

The Missouri Agricultural College, of which Prof. F. B. Mumford of the class of 1890 is professor of animal husbandry, has issued a circular of the special courses given by that college, beginning Jan. 3. The circular presents several pictures suggestive of the work offered, which is much the same as that given at M. A. C.

E. A. Stricker was elected captain of Company F., Detroit Light Guards, on December 7.

R. B. McPherson, of Howell, aside from his banking business, is largely interested in the telephone system operating in Livingston, Ingham, Jackson and Oakland counties. In this enterprise he is associated with W. W. Morrison.

'00.

A local horticultural society has been formed at Benton Harbor with Paul Thayer of the class of 1900 as president, and C. H. Hilton of the same class as treasurer. This organization is quite unique in the fact that it is managed by young men. In most societies of this kind the men chosen for officers are those who have had many years of experience in fruit growing.

SOCIETY OFFICERS.

The following is a list of the officers of the various societies and clubs for the coming term:

ATHLETIC ASSOCIATION.

President A J Anderson
 Vice President J E Schaefer
 Secretary H S Hunt
 Treasurer C I Auten
 Track Manager Bruce McAlpine
 Baseball Manager R Rasmussen
 Tennis Manager K B Stevens
 Football Manager L B Hitchcock
 M I A A Director A J Anderson

THEMIAN.

President Elva Davis
 Vice President Lillian Taft
 Secretary Gail Westover
 Treasurer Emma McKee
 Marshal Hearty Brown

FERONIAN.

President Ethel Adams
 Vice President Nina Fox
 Secretary Louisa Taylor
 Treasurer Florence Liken
 Marshal Josephine Maveety

ERO ALPHIAN

President Flora Campbell
 Vice-President Berenice Jackson
 Secretary Edythe Warren
 Treasurer Jennie Clawson
 Marshal Lora Hyde
 Record Editor Edith Hutchins

SIGMA NU BETA

President Jas. Fisk
 Vice-President Frank Grover
 Secretary Clare Peck
 Treasurer Leslie Westerman
 Marshal Homer Ellwood
 Warden Earl Robinson
 Record Editor Oie Stephenson

HESPERIAN

President G. F. Talladay
 Vice-President E. G. Kenney
 Secretary H. C. Baker
 Treasurer E. Robinson
 Registrar W. Bidwell
 Member Oratorical Board E. G. Kenney
 Marshal G. Dane

COLUMBIAN

President R F Bell
 Vice President E N Bates
 Secretary O I Gregg
 Treasurer B G Campbell
 Marshal M B Ashley

ECLECTIC

President P H Wessels
 Vice President J E Schaefer
 Secretary J H Taylor
 Treasurer S E Race
 Marshal E C Buss
 Warden H L Kimball
 Librarian C A Pratt
 Record Editor G C Dudley

UNION LITERARY

President J P Haftenkamp
 Vice President Ray Potts
 Secretary M F Johnson
 Treasurer E W Kenrick
 Sinking Fund Treas. H Nickodemus
 Record Editor R E Haines

OLYMPIC.

President M Lee Kingsley
 Vice President I M Phippeny
 Secretary P H Shuttleworth
 Treasurer L B Hitchcock
 Marshal Walter Small
 Record Editor B B Clise

FARMERS' CLUB.

President R C Potts
 Vice President C A Willson
 Secretary A L Darbee
 Treasurer L A Roeller
 Record Editor R G Potts

HORT. CLUB.

President H C Oven
 Vice President O B Burrell
 Secretary C A Potts

PHI DELTA.

President F O Gordon
 Warden A A Fisk
 Secretary L D Bushnell
 Treasurer B B Lombard
 Record Editor E B McKenna

STATE HORTICULTURAL SOCIETY.

M. A. C. was well represented at the State Horticultural Society meeting held at Benton Harbor the past week. Those present at this meeting from the College were Prof. Taft, Prof. Smith, Prof. U. P. Hedrick, Prof. Pettit and Mr. Gunson.

College people who attended the annual meeting of the State Horticultural Society last week will long remember the impromptu social gathering at the home of Mr. and Mrs. Robinson. The credit of meeting in such an informal way is due to Mr. and Mrs. Paul Thayer and Mr. C. H. Hilton, who suggested and directed the gathering of so many persons who had at some time or other been connected with the College.

As the homes of both Mr. Thayer and Mr. Hilton are situated some distance from the city, the meeting was held at the home of Mrs. Thayer's parents who furnished a sumptuous chicken-pie dinner. The party consisted of the following persons:

C. J. Monroe, South Haven; Prof. C. D. Smith, M. A. C.; Prof. U. P. Hedrick, M. A. C.; Dr. M. Elva Worden, Petoskey; C. B. Cook, Owosso; F. H. D. Wells, Rochester; B. Wermuth, Detroit; F. E. Rood, Covert; Mr. and Mrs. R. C. Thayer, Benton Harbor; Mr. and Mrs. Paul Thayer, Mr. C. H. Hilton, Benton Harbor; S. B. Hartman, Athens; Mr. James J. Jakway, Benton Harbor; Miss Irma Thompson, Benton Harbor; Geo. C. Chatfield, South Haven; Supt. T. A. Farrand, State Ex. Station, South Haven; George A. Hawley, Hart; J. P. Munson, Grand Rapids; Mr. and Mrs. C. E. Bassett, Fennville; W. W. Dickinson, Benton Harbor; Thomas Gunson, M. A. C.

THE SECRET OF SUCCESS.

"What is the secret of success?" asked the Sphinx.
 "Push," said the button.
 "Never be led," said the pencil.
 "Take pains," said the window.
 "Always keep cool," said the ice.
 "Be up to date," said the calendar.
 "Do business on tick," said the clock.
 "Never lose your head," said the barrel.
 "Make light of everything," said the fire.
 "Be sharp in your dealings," said the knife.
 "Do a driving business," said the hammer.
 "Aspire to greater things," said the nutmeg.
 "Do the work you are suited for," said the flue.
 "Live to make a good impression," said the seal.
 "Never do anything off-hand," said the glove.
 "Spend much time in reflection," said the mirror.
 "Find a good thing and stick to it," said the glue.
 "Get a good pull with the ring," said the door-bell.
 "Make much of small things," said the microscope.—*Exchange.*

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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, 109 Washington Ave. South.

BOOTS AND SHOES.

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

CLOTHING.

BUY our Dry Goods and Clothing at H. KOSITCHEK & BRO'S. Dry Goods Store 210 Washington Ave. S. Clothing Store 113 Washington Ave. N.

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. Citizens' Phone 1049. Former M. A. C. student.

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

R. W. MORSE, D. D. S. Hollister Block, Room 617. Citizens Phone 52, Bell Phone 396.

D. E. PARMELEE, Dentist, 117½ Washington Ave. S., Lansing, Michigan. Citizens' Phone, office 275; residence, 1440.

DRUGGISTS.

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

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

DRY GOODS.

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

Miss Kerr was again called to Three Rivers the past week on account of a change for the worse in the condition of her mother, who failed rapidly until Friday when she died.

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.

ELECTRICAL SUPPLIES.

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

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. The France-American Hygienic Toilet Requisites a specialty. New phone 118. 222½ Washington Ave. S., up stairs

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.

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. 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.

Miss Berenice Maynard spent a couple of days at her home last week with her mother, who left on Wednesday for Everett, Washington, to spend the winter with her daughter, Mabelle.