

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 15.

LANSING, MICHIGAN, TUESDAY, OCTOBER 12, 1909.

No. 4.

WABASH VS. M. A. C. SATURDAY, OCT. 16.

THE COMING EVENT OF THE YEAR.

The appearance of Wabash on the gridiron across the river marks the moment long looked forward to by the students, alumni and friends of the college. October 16th is anticipated as the day of excitement, and all the old "war horses" are expected.

Each of the two previous games have been played on the home field and have been of intense interest. Last year it was won from the visitors on a forward pass from the 25-yard line, winning for us 6 points, the only score made during the game.

Within 36 hours after the sale of seats opened 1800 had been disposed of and no more could be bought. Several members of the faculty and a few students who had been late in deciding whether or not they would attend were disappointed when they finally concluded to go. Some of the literary societies took whole blocks of seats and will do so again this year.

Mr. Brewer is already in receipt of letters from alumni and friends from Chicago and other distant cities concerning this game and from a comparison of the incidents previous to the former games it looks very much like a bumper attendance. It is necessary therefore that you get your tickets at once after the opening of the windows. These will be on sale at the Secretary's office and at Director Brewer's office at 9:00 o'clock Wednesday morning.

One occasion for such a large attendance is the good feeling that exists between the two schools. Social functions have always followed in the evening and the societies have taken a delight in showing Wabash a royal good time.

They will do the same again this year.

THE MASS MEETING.

The mass meeting, which assembled Wednesday evening in the gymnasium, was the largest gathering of students and faculty that has yet assembled indoors. The auditorium was crowded to its full capacity. The spirit of the meeting was one of enthusiasm and cheers. Short talks were given by Pres. Snyder, Dean Bissell, Profs. Eustace and Vedder, and McKenna and Shedd. The band led the college songs, and the way everybody fell into the spirit of them was a thing to be proud of.

Scriber, Dickison and Brown led the college yells.

NOTICE.—Lost: A steel covered trunk, well roped, leather hinges; taken from Grand Trunk station on Sept. 20 or 21, bearing Grand Trunk check No. 161479. Holder notify F. H. Potter, Grand Trunk ticket office.

HORTICULTURAL CLUB.

The first meeting of the fall term of the Horticultural Club was held Wednesday evening, September 29. The members of the club were called upon to speak upon their summer's experience.

L. E. Babcock was at Battle Creek, employed on the farm and gardens of the Sanitorium Company.

France worked in the M. A. C. greenhouses all summer.

Miller worked upon a large fruit farm at Fennville, Mich.

Scott raised onions on a farm in southern Michigan.

C. E. and J. A. Smith spent part of the summer with a nursery company in Chicago.

Voorhorst worked upon a large fruit farm in western New York.

Wagner was working and traveling in the northwest.

Crane spent the summer on his father's fruit farm near Fennville.

Dayharsh was employed in the State park at Mackinaw Island, doing landscape work.

Dewey spent part of the summer in the Old Mission region.

Keith grew cucumbers for a seed company.

Linderman did landscape work near St. Clair.

Mason spent most of the summer in the botanical garden at M. A. C.

Tubergen canvassed in Oceana county.

Wagenen spent part of the summer in the fruit region on western Colorado.

The second meeting was held on October 6th, and the speaker was Dr. Dandeno, who discussed many of the well known plant diseases. In spite of the fact that there was a big athletic meeting, there was a large attendance to hear Dr. Dandeno.

These meetings are held in the club room of the horticultural laboratory every Wednesday evening from 6:30 to 7:30. All students interested in any phase of horticulture are invited to attend. In addition to the talks, which are always informal, it is aimed to have some fruit for observation and consumption.

Mr. O. K. White, college field agent in horticulture, will speak this Wednesday on "Horticulture in Michigan." A collection of California grapes, sent to the department by Mr. B. B. Pratt, '09, will be exhibited.

Officers for this term are: President, R. C. Voorhorst; vice president, J. G. France; secretary and treasurer, C. E. Smith.

"Agriculture in the Schools" is the title of a very interesting and timely bulletin issued by the M. A. C. department of agricultural education. It contains valuable suggestions and illustrations to aid in establishing a sane and workable course of study in our high schools. A course of study is given and it commends itself to us as a most feasible one.—*Moderator Topics.*

MICHIGAN STATE TEACHERS' ASSOCIATION.

The Michigan State Teachers' Association will hold its session in the city of Saginaw, October 28-30, 1909. The local headquarters of the Association will be in the Hotel Vincent. Superintendent E. C. Warriner is local committee, and all inquiries regarding accommodations should be addressed to him.

The meeting of this Association is made a State Teachers' Institute by appointment of the Superintendent of Public Instruction, and therefore all teachers are entitled to their time for attendance, also to receive their regular compensation for such time.

The opening session of the association will begin at 1:30 p. m., October 28, and Dr. Henry S. Pritchett, President of the Carnegie Foundation for the Advancement of Teaching, will deliver the principal address. The citizens of Saginaw will tender an entertainment to the teachers by the Robertson Players. The first entertainment will be given at 3:30 p. m. on Thursday, and the second division of the entertainment at eight o'clock in the evening. The following speakers for the general sessions have been secured: Friday afternoon addresses will be given by Professor W. H. Mace, of Syracuse University, and Professor Earl Barnes, University Extension Lecturer of Philadelphia. On Friday evening addresses will be given by Dean Eugene Davenport, of the University of Illinois, and Rabbi Emil G. Hirsch, of Chicago. On Saturday morning President John Finley, of the College of the City of New York, will give the closing address of the association.

Friday afternoon will be given over to the meetings of the twelve sections of the State Association. Eminent speakers have been secured for all of these sections. Several of the general session speakers will address section meetings as follows: Professor Mace, the grammar section; Professor Barnes, the primary and kindergarten sections; Dean Davenport, the rural section, and Mrs. M. F. Johnson, president of the Art Association, will address the high school section. On Friday evening, before the lectures, the Association will be tendered an organ recital in the auditorium.

The railroads have granted reduced rates as follows: For the lower peninsula one and one half fare, with selling dates October 26, 27, 28 and return limit November 1. For all points in the upper peninsula the same rate of one and one-half fare is given, and the tickets are sold one day earlier and have a return limit one day later. These are the most liberal rates that have ever been given to the teachers of the state.

The people of the city of Saginaw have shown themselves to be extremely good entertainers. They have guaranteed to care for all who may come, and we hope to tax their hospitality to the utmost.

WALTER H. FRENCH, Pres.

ALUMNI

'01.

Louis G. Michael, who graduated here in 1901, will teach the Russian farmers American methods of corn growing. His salary is about \$4,000. The Russian government has recently appropriated \$15,000 for lectures on farming to be delivered before her agricultural element.

'03.

Mr. B. S. Brown, '03, is in the department of horticulture at the agricultural experiment station, Davis, California. He is enjoying the work and is enthusiastic over the possibilities of the "Golden State."

'04.

Robert D. Maltby, '04, in charge of agriculture, dairy and animal husbandry department of Baron de Hirsh Agricultural College, Woodbine, N. Y., visited here Sept. 17. His department includes all farm operations, the care and management of live stock, including horses, cattle, swine and poultry.

'07.

Philip V. Goldsmith, Michigan Agricultural College, '07, has resigned his position as assistant chemist in the Massachusetts experiment station and will sail Oct. 27 from New York for Cuba, where he will be chemist for the American Sugar Company.—*Boston Globe.*

'08.

Joseph A. Rosen, '08, of Moscow, Russia, is employed by his home government at a salary of \$4,000, with an assistant at \$2,000. He has his headquarters at Minneapolis, Minn. Mr. Rosen's official duties consist mainly of carrying out investigations of means whereby the agricultural resources of Russia may be improved.

OLYMPICS.

The Olympic Society entertained their friends at an eleven o'clock Friday evening. About twenty couples, chaperoned by Prof. and Mrs. G. W. Bissell, Prof. and Mrs. H. J. Eustace, and Mr. and Mrs. W. H. Parker, enjoyed a very pleasant evening. The music was furnished by the college orchestra of four pieces. On Saturday evening, at the literary meeting, a very good program was rendered. Among the best numbers was an interesting talk by Mr. Hall on his experiences as a taxicab driver. H. I. Duthie read a very good paper on "The Destruction of Our Natural Resources," and E. P. Wandel read an article on "Irrigation," bringing out many points of interest, both to engineers and ags. H. S. Peterson livened up the evening with some of the "funny stuff" in the form of a plantation story of an old negro. E. R. Baldwin distinguished himself as a critic.

Lost.—A pair glasses. Finder return to Fred Hewett.

The M. A. C. RECORD

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CHAS. HENLEY, MANAGING EDITOR

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TUESDAY, OCT. 12, 1909.

PROCEEDINGS OF THE ENGINEERING SECTION OF THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

WINNIPEG MEETING

BY GEORGE W. BISSELL,
M. A. M. SOC. M. E.

(Continued from last week.)

From Engineering News, Sept. 9, 1909.

Mr. C. B. Smith presented a paper "The City Hydro-electric Plant." This plant, now under construction, is located on the Winnipeg River at a distance of 77 miles from Winnipeg. It is expected to have an ultimate capacity of 60,000 HP., of which 20,000 HP. will be installed at present. The available head is 45 ft. The generator units are of 3,000-KVA. capacity each, and generate 60-cycle three-phase current at 6,600 volts which will be stepped up to 66,000 volts for transmission. The generators will be direct-connected to 5,200 HP. double horizontal submerged turbines operating at 164 r. p. m. The transmission line will be of aluminum, supported on steel towers. The estimated cost of the undertaking is \$3,000,000. Mr. Smith is construction engineer and Col. H. N. Ruttan is chief of the board of consulting engineers.

Lt. Col. W. P. Anderson, chief engineer of the department of marine and fisheries, read a paper, "Improvements in the Navigation of the St. Lawrence," which gave a very clear account of the improvements in the channel and the means for maintaining the depths; of lighthouses and other aids in navigation, including submarine bells (which he considers very desirable and efficient aids of communication); of surveys and hydrography; of ice conditions and winter navigation; and of the ports from Montreal to the sea. A 27-ft. channel is available from the open sea to Montreal.

Maj. G. W. Stephens, President of the Harbor Commissioners of Montreal, presented a paper entitled "The St. Lawrence River, the Great Imperial Highway of Canadian Transportation," in which he stated and emphasized the importance of Montreal as a shipping point for Canadian products. In connection with these papers President White presented a summary of the government report on the Georgian Bay Ship Canal, designed to connect Georgian Bay with the Ottawa River by a 20-ft. channel route about 400 miles long.

The most important paper of the entire program was by Col. G. W. Goethals, Chief Engineer and

Chairman of the Isthmian Canal Commission, on "Engineering and Construction Features of the Panama Canal." The paper was presented by the author's son, Lieut. G. R. Goethals, U. S. A., who has returned from 14 months' service in the Canal Zone. The paper dealt at length with the Gatun dam, the locks and the Culebra cut, and gave statistics of performance and details of difficulties encountered. Lantern slides were freely used in illustration. As a special compliment to the author, as well as recognition of the value of the paper, it will be published in full in the Proceedings of the Association (each section is granted space for one paper).

"The National Transcontinental Railway," by Mr. Duncan McPherson, was read by the Secretary. The railway will eventually be part of the Grand Trunk system. The eastern division, from Moncton, N. S., to Winnipeg, Man., is being constructed by the government and will be leased to the Grand Trunk Pacific Ry. The latter corporation is constructing the line from Winnipeg to Prince Rupert, B. C. On the eastern division the maximum curve is 6°, and maximum grade 0.4 per cent eastbound and 0.6 per cent westbound, compensated for curvature. The easy gradients, combined with a reduction of 220 miles in the distance from Winnipeg to Quebec as compared with the shortest existing rail route, are expected to give the new line considerable advantage and to justify its construction.

Mr. J. E. Schwitzer, Asst. Chief Engineer of the Canadian Pacific Railway, Western Lines, in a paper entitled "Two Great Engineering Works on the Canadian Pacific Railway," described the Lethbridge Viaduct and the Kicking Horse Pass improvement, both just completed.

The Lethbridge Viaduct is 5,327 feet in length, and some of the steel towers on which the spans are supported are 285 feet high beneath the girders. It contains 12,200 tons of steel. Owing to the rugged character of the site and its remoteness from the base of supplies the difficulties of construction were great.

The original line of the Canadian Pacific between Hector and Field, B. C., contained a section of 4.1 miles on 4.5% grade. Four engines were required to haul a 700-ton train over this grade. The recent improvement gives 2.2% maximum grade through the Kicking Horse canyon. It involved building two loop tunnels, 2,912 and 3,184 ft. long respectively, and one short tangent tunnel.

Col. H. N. Ruttan described the high-pressure water service, Winnipeg, of which undertaking he was the engineer. The plant consists of four 540-HP. and two 250-HP. Crossley two-cylinder tandem gas engines each geared to triplex pumps. The engines operate on producer gas. City gas can also be used in emergency. The suction and discharge mains are 20 in. in diameter. The capacity of the entire plant is 9,000 gals. per minute against a pressure of 300 lbs. per sq. in. Gas from the producers is stored in a holder of 250,000 cu. ft. capacity. The amount invested is \$1,000,000, raised by bonds whose interest charges are used as the sinking fund and cost of operation are met by tax on the property protected;

WABASH vs. M. A. C.

COLLEGE FIELD

Saturday, October 16th

ALL SEATS RESERVED

Seat Sale Open in Director Brewer's Office Wednesday, 9 a. m.
Also at Secretary's Office. No extra charge for Reserved Seats.

but the tax is less than the annual saving in insurance (estimated at \$200,000). This undertaking, as well as the municipal hydro-electric plant described in Mr. Smith's paper and other large public undertakings, is evidence of the city's enterprise and faith in its future, which is rather remarkable when the present population, 130,000, is considered.

"The Development of the Grain Industry of Western Canada and its Future Possibilities," a paper by Mr. G. Harcourt and "Grain Handling" by Mr. W. B. Lannigan, opened the eyes of the audience to the vast magnitude and growth of the grain business in Manitoba and the other western provinces. The industry is a continual surprise even to citizens of the United States, and the extent of untouched but potent areas of wheat land in the Dominion is overwhelming. In 1908, the three provinces of Manitoba, Saskatchewan and Alberta produced 103,900,000 bushels of wheat, 108,980,000 bushels of oats and 24,000,000 bushels of barley, the respective areas under cultivation being 6,760,000, 3,420,000 and 965,000 acres. In the same provinces there were, on May 1, 1909, 1,490 elevators with aggregate capacity of 44,000,000 bushels.

Prof. E. G. Coker read in abstract a very complete paper reporting the extensive and thorough investigations of Mr. C. E. Larrard on "The Behavior of Ductile Material Under Torsional Strain." The tests were made on large sections, up to 3 in. in diameter, and the author lays stress on the importance of testing under conditions approximating as nearly as possible those of service, as to both magnitude and character of the stress.

Prof. J. B. Porter, of McGill University, made a preliminary, informal report of the fuel tests being carried out by him for the Dominion Government. The work is intended to furnish users of Canadian coal information like that obtained by the U. S. Geological Survey for the coal consumers in this country. Particular stress is being placed in boiler tests in boilers of medium size, 50 to 60 HP., so that the results may be useful to the average user rather than to the larger plants which in general have ample facilities for doing their own testing.

Other papers presented before the meeting were:

"The Distribution of Dielectric Stress in Three-Phase Cables," by W. M. Thornton and O. J. Williams, of Newcastle-on-Tyne.

"The Losses from Overhead Direct-Current High-tension Lines due to Brush Discharge," by E. A. Watson, of Birmingham.

"The Calculation of Charging-currents in Three-core Cables and Three-phase Overhead Transmis-

sion Lines," by Prof. E. W. Marchant, of Liverpool College.

"International Electrical Standardization," by O. Higman.

The latter was a review of the standardization so far accomplished, while the other three papers were reports of elaborate and thorough experimental work in their respective subjects.

The section's committee on Gaseous Explosions, which is investigating the behavior of the explosive charge in internal combustion engines, reported progress. Mr. Dugald Clerk is at the head of this committee; Prof. E. G. Coker read the report.

The sessions above reviewed were held on the mornings of Thursday, Friday, Monday, Tuesday and Wednesday (Sept. 1), leaving the afternoon of these days and all of Saturday for other features. This time was occupied chiefly by excursions to neighboring points of engineering interest. Among them were the yards and shops of the Canadian Pacific and Canadian Northern railways, the high-pressure fire-service pumping plant, the municipal hydro-electric plant, St. Andrews lock on the Red River, etc.

The evenings were devoted in part to popular lectures, but more largely to various social functions, in which the citizens of Winnipeg showed their hospitality in a very generous and delightful manner.

The meeting is followed and supplemented by an excursion to the Pacific Coast on special train, visiting important points of western Canada, as Regina, Moose Jaw, Calgary, Edmonton, Caniff, Laggan, Vancouver and Victoria.

ECLECTICS.

The Eclectic Society gave their first party of the term the evening of Saturday, October 9th. By half past seven a goodly company of the members, their alumni and friends had gathered at the home of the society. The game room and den had taken on the appearance of a patch of autumn woods. Here and there among the gayly colored leaves were to be seen various signs containing such inscriptions as, "No Fussing in the Arborium," "Do not Feed the Squirrels,"—and one in particular, placed over a tempting looking bench, "Dear Season Closed." The time was given up entirely to dancing. Altogether it was a very enjoyable evening. It was made especially so by the presence of Professor and Mrs. Eustace and Mrs. Mildred S. Osband, who were the patrons for the evening.

Everybody welcome at the Scrooby reception.

A CONSTANT STREAM OF NEW THINGS

CHARMING, EVERY ONE OF THEM

WE started this fall with an even more extensive showing than ever before. As you glance over hundreds of styles you will quickly see that there is a decided tendency toward closer fitting garments and coat dress effects; also that the dominant feature in everything is the Moyer—Age Effect—the newest, oddest, most attractive style introduced in years. Colors were never prettier, and there are enough fashionable shades for everyone to find a becoming one. There seems to be almost a passion for all tones of Violet, from the deepest purple to the softest shades of Lavender. Raisin is good; Catawba Blue, Black and Grey.

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Our line of Women's and Misses' Furs were never more complete than now. All the latest and newest things in Muffs, Scarfs, Fancy Sets, Fur Coats, at a great saving in price.
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COLLEGE BUS HEADQUARTERS

ABOUT THE CAMPUS

The Aurorian society will hold their fall term party Oct. 23 in the armory.

Eds and Co-eds at the Scrooby reception Friday evening, 8 to 10, in the armory.

Better than ever.—The reception Friday evening, in the armory. Remember the date, —Oct. 15.

FOUND.—An Alpha Phi pin. Loser call at Prof. Marshall's office. May have same by identifying same.

LOST.—A bunch of keys, probably up town. Finder return to James A. Waldron or secretary's office.

The Misses Gertrude Alden and Mysee Bennett, of Grand Rapids, spent Saturday and Sunday with college friends.

The Chrestomathean Club of the First Presbyterian church will give a reception to the students of the M. A. C., Friday evening, Oct. 15.

The Union Literary society will give their annual fall term party in the armory. A number of out of town guests are expected.

Mary Allen, '09, visited with college friends over the week end. Miss Allen has a position in the public schools of Detroit, teaching domestic science and domestic art.

The training table was set for the first time at the College Inn Monday evening. Seventeen brawny fellows partook of the food that makes strong backs and unlimited endurance.

J. J. Flanagan in a recent New York contest, threw the 16-pound hammer 180 feet, breaking his former world's record by 5 feet. Flanagan was one of the Olympic stars in London during the summer of 1908.

Fremont is constructing a \$20,000 addition to her schoolhouse; manual and industrial work will be cared for in the light and well-fitted basement. Supt. A. R. Shigley and 14 assistants constitute the corps. A handsome announcement for 1909-10 appears with the educational clause of the "Ordinance of 1787" printed on its fly-leaf.

By close observation around the campus, the days of savagery are evidently not over, for last Sunday two well-known young ladies at the hospital, were seen splitting, or rather trying to split some wood. If this were the time of the lance and vizor, such things would not happen, but owing to the higher education of the age, the women think that they must have exercise and so perform the labor of the Piute squaws. The young men of Lincoln Hall should see to it that our coeds are not to perform such menial labor hereafter.—*Nevada Student Record.*

"There was a young lady named Fitch
Who heard a loud snoring, at which
She took off her hat
And found that her rat
Had fallen asleep at the switch!"

THOMAS JEFFERSON ON PRIMARY EDUCATION.

In these days of widespread discussion of proposed changes in school courses, the purposes of elementary education as stated by Mr. Jefferson, will be of interest.

1. To give to every citizen the information he needs for the transaction of his own business.
2. To enable him to calculate for himself, and to express and preserve his ideas, his contracts and accounts in writing.
3. To improve, by reading, his morals and faculties.
4. To understand his duties to his neighbors and country, and to discharge with competence, the functions confided to him by either.
5. To know his rights; to exercise with order and justice those he retains; to choose with discretion the fiduciary of those he delegates; and to notice their conduct with diligence, with candor and judgment.
6. And, in general, to observe with intelligence and faithfulness all the social relations under which he shall be placed.

The demand for vocational training which is now so insistent, is strictly in accordance with the first object stated, interpreting it in the light of present day conditions.

—*Exchange.*

When one looks on the glorious exhibits of fruits, grains and vegetables displayed in the county and district fairs of pine belt Michigan, he sees a great rich future for the state.

MARK TWAIN ON THE MOVE.

When Mark Twain was a young and struggling newspaper writer in San Francisco a lady of his acquaintance saw him one day with a cigar-box under his arm, looking in a shop window.

"Mr. Clemens," she said, "I always see you with a cigar-box under your arm. I am afraid you are smoking too much."

"It isn't that," said Mark. "I'm moving again." — *Woman's Home Companion.*

LEARNED IT BY EAR.

The dear little girl then arose, bowed, and recited it in this manner:

"Lettuce Denby up N. Dewing,
Widow Hartford N. E. Fate;
Still H. E. Ving, still per Sue Wing,
Learn to label Aunty Waite."

Then with the tumultuous applause of the audience ringing in her ears, she sat down in happy confusion.

A TOUGH HEAD.

Dinah, crying bitterly, was coming down the street with her feet bandaged.

"Why, what on earth's the matter!" she was asked. "How did you hurt your feet, Dinah?"

"Dat good fo' nothin' nigger [sniffle] done hit me on de haid wif a club while I was standin' on de hard stone pavement." — *Everybody's.*

J. W. KNAPP & COMPANY

LANSING'S BUSY RELIABLE STORE

Annual Formal Fall Opening

Wednesday, Thursday, Friday, Saturday - October Sixth, Seventh, Eighth, Ninth

Everybody cordially invited to attend this great showing of new merchandise. The newest goods—the latest creations of fancy silks for waists and evening dresses—the newest weaves in dress goods for dresses and for suits—beautiful new dress trimmings—the latest models in ready-to-wear garments.

Music Thursday, October Seventh

From eleven a. m. until one p. m., and two till five p. m., by Lansing's celebrated Bijou orchestra, the finest musical organization in this part of the state. Come and enjoy the music, and see the store at its best.

J. W. KNAPP & COMPANY.

M. A. C. WINS BOTH GAMES OF THE WEEK.

OCT. 7—DETROIT COLLEGE.

The light weight Detroit visitors played very fast football throughout the game, but Brewer's heavy men proved an impregnable wall. At the end of the game the score stood 27 to 0—14 touchdowns, a forward pass and a field goal in our favor. The visitors received several hard shocks and were repeatedly injured, but these only added to the savageness of their playing.

THE SUMMARY.

Detroit College. M. A. C.
Keller, Cosgrove. L. E. Shedd, Stone
Fitzgerald. L. T. J. F. Campbell
Flattery. L. G. A. L. Campbell
McGough, Marx. C. Moore
Smith. R. G. Lemmon
Cosgrove, Moran
Chambers. R. T. Carey
Kelley. R. E. Pattison, Hill
Rabaut. Q. Cortright
McNamara (Capt.) L. H. Barnett, Ballard
Kent. R. H. McKenna (Capt.)
Dehavene. F. B. Exelby

Final score—M. A. C. 27, Detroit College 0. Score first half—M. A. C. 24, Detroit 0. Touchdowns—McKenna, Exelby 3. Goals from touchdowns—McKenna 4. Goals from the field—McKenna. Referee—Ashley of Lansing. Umpire—Whitmire of Detroit. Time of halves—20 and 5 minutes.

OCTOBER 9—ALMA COLLEGE.

The game with this team was characterized by more strength and less noticeable speed. At the wind-up the score was 34 to 6, again in favor of M. A. C. Lemmon did fancy defensive work and the game was a good example of the new style of playing. Nearly all the forward passes proved effective. Nineteen men were employed during the game.

Our lineup was as follows:

Moore, A. L. Campbell, Hansen—L. G.
J. F. Campbell, Shedd, Stone—L. E.
Lemmon, Host—R. G.
Carey—R. T.
Patterson, Hill, Davis—R. E.
Cortright—Q.
Barnett, Ballard, Woodley—L. H.
Exelby—F. B.
Capt. McKenna, Johnson—R. H.

MARRIAGES.

An announcement is received of the wedding of Mr. Robert Llewellyn Reynolds, '95, to Miss Edith Newman, at Los Angeles, California, Thursday, Sept. 16th. Mr. Reynolds is a member of the Holabird-Reynolds Electric Co., 218 East Third St. The company has just taken the quarters at this address on a five years' lease. Mr. Reynolds has not fully decided upon a residence, but will live somewhere in Los Angeles.

NOTICE.—Seats can be reserved for the Liberal Arts Union entertainment course, beginning Wednesday, at the secretary's office. The price of admission to the concert Monday is 75 cents.

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and Outing Flannel Sheets

Our stock is the most complete and prices are the lowest where quality counts. We are prepared to meet most any demand that comes to us in this line.

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BOOK BINDERS.

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SHUBEL'S SHOE STORE.—210 Washington Avenue North. Repairing done by electricity. Student patronage solicited.

CROCKERY AND GLASSWARE.

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CLOTHING.

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

H. KOSITCHER & BROS.—Clothiers. Furnishings, Dry Goods. 113 Washington Ave. N.

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

DENTISTS.

C. E. COCHRANE, D. D. S.

N. H. MOORE, D. D. S. Office 411-413 Hollister Building, Lansing, Mich. Citizens phone. Automatic 9499

D. E. PARMELEE, Dentist, 117½ Washington Ave. S., Lansing, Michigan. Automatic phone, office 3402; residence, 3403.

J. E. STOFFER, D. D. S. Office 301 City National Bank Bldg. Citizens phone 1049. Former M. A. C. student.

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M. J. & B. M. BUCK.—Furniture. Corner Washington Ave. and Ionia Street. See ad.

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

JEWELERS.

H. P. PIPER.—Resident Watchmaker. Any work left at College Book Store or Brick Grocery will receive prompt attention.

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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.

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D. R. OSCAR H. BRUEGEL. Hours, 7 to 8:30 a. m.; 2 to 4 and 7 to 8 p. m. Sundays, 12 to 1 and 5 to 6 p. m. East Lansing, Mich. Citizens phone 1344.

D. R. H. W. LANDON, Agricultural College, Mich. Office hours: 7 to 8:30 a. m., 12:30 to 2 and 6:30 to 8 p. m. Sundays, 10 to 11:30 a. m., 7 to 8 p. m. Citizens' phone 9228.

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