

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 14.

LANSING, MICHIGAN, TUESDAY, MARCH 2, 1909.

No. 22.

## THE STATE ORATORICAL.

Next Friday evening at Kalamazoo will be held the annual State Oratorical Association contest, at which M. A. C. will be represented by two of the strongest students of the college in that particular line. Mr. C. J. Oviatt, of Bay City, a senior agricultural student who was a member of the victorious debating team last year, will compete in the men's contest, and Miss Shirley Gardner, of Lansing, a senior student in the department of home economics, will compete in the women's contest.

There is every reason to believe that both Miss Gardner and Mr. Oviatt will rank well in the contest but it should not be left to them alone. They should have the moral support of an enthusiastic student body at home and also an enthusiastic body of supporters present at the contest. Arrangements are being made by the officers of the local association to get as large a number as possible to attend, and the Kalamazoo Association guarantees accommodations. Those who attend will be excused from classes.

Supper, lodging and breakfast will be furnished free to all who attend. The admission fee will be 25c for one or 35c for both entertainments. Everyone who contemplates going should hand in their name at the earliest possible moment to either of the following: C. H. Ponitz, E. L. Boyd, M. B. Ashley, G. P. Burkhart, R. G. Hoopinger.

Alumni and other friends of the college conveniently located should make an effort to attend in a body and help to land once again the State Oratorical Championship.

The judges are announced as follows: J. D. Bennett, dramatic editor of the *Chicago Record-Herald*; William Mertz, of the *Detroit College of Law*; S. W. Curtiss, editor of the *Legal News*, Detroit; attorney H. H. Richardson, of Detroit, and J. H. Snook, of Ann Arbor.

## BANNER YEAR FOR SHORT COURSES.

Wednesday afternoon exercises were held in the college chapel which brought to a close the most successful year in the history of the short courses, both in point of attendance and general interest.

Brief, but appropriate addresses were made by Senator L. Whitney Watkins, of Manchester, and Representative Newkirk. Solos were sung by Mrs. R. S. Shaw and R. A. Turner.

The enrollment this year reached a total of 212 or six more than the attendance last year, and the largest since the courses were established. The cheese course will continue two weeks longer.

The capacity of the college to care for short course students was reached this year, but with the completion of the new agricultural building twice that number may be accommodated another season.



C. J. OVIATT

He will represent M. A. C. at the Men's contest at Kalamazoo, Friday evening.



MISS SHIRLEY GARDNER

She will represent M. A. C. at the Women's contest at Kalamazoo Friday evening.

## DARWIN CENTENARY.

Arrangements have been made for a fitting celebration commemorating the 100th anniversary of the birth of Charles Darwin to be held in the armory, Thursday, March 4, at 7 p. m. Steps were taken to have this celebration February 12, but a speaker could not be secured at that date.

After some delay in selecting a suitable date March 4 was decided upon.

The address will be given by Dr. R. M. Wenley, professor of philosophy at the University of Michigan. Dr. Wenley is an able and popular lecturer whom all should hear. *Do not forget the early hour.*

The program will be as follows: Music, M. A. C. chorus; Early Impressions of Darwinism, Dr. W. J. Beal; Darwin, the Worker, Prof. W. B. Barrows; Music; Darwin's Influence on Thought, Dr. Wenley.

## AUTOMOBILES.

We are in receipt of a 200-page work on the Automobile, by Hugo Diemer, former Assistant Professor of Mechanical Engineering at M. A. C., now Professor of Mechanical Engineering at State College, Pa.

It is a practical treatise on the construction, operation, and care of gasoline, steam and electric motor cars, including mechanical details of running gear, power plant, body and accessories, instruction in driving, etc., and includes all types of cars from the runabout and touring car to the truck and fire engine types. It is fully illustrated with photographs and drawings.

Published by the American School of Correspondence, Chicago, Ill.

## FREE LECTURE.

Mr. Gilbert McClurg, of Colorado Springs, has been secured to give his travel talk, "O Brave New World," at the armory Friday evening, March 5. This is a highly interesting lecture, illustrated with motion pictures and 300 colored views.

Mr. McClurg gave this lecture at the Round-up-Institute here a year ago, where it was received with much favor.

Admission Free.

## ATHLETIC CARNIVAL.

On April 10th, the first Saturday in the spring term, a carnival is to be given for the benefit of the Athletic Association. It is to take the place of the minstrel show of last year, and the circus of the year before. The armory is to be filled with various booths, and besides these there will be a sideshow. The young ladies of the college will have fortune-telling gypsies there, and will run a lunch counter and candy store. There will be a wild west saloon, a shooting gallery, all kinds of games, a museum, and many other attractions. Order will be maintained by burly policemen, and justice administered by the conventional police court. A tremendous parade will open up the show—to the music of many brass bands—at 2 p. m., and a hilarious afternoon and evening will follow.

The management is in the hands of a committee, consisting of the following men: Van Wagenen (chairman), Kempster (secretary), Wheeler, Coulter, Tanner, Belknap, Baker, Roberts, Anderson, Chapman, Crane, and Burroughs. The committee desires the help of everybody in college, especially those who know of good stunts that could be worked up into good attractions. See any member of the committee.

## SEMI-FINAL DEBATES.

The semi-final debates for choosing men to represent M. A. C. in the Ypsi contest were held last night. Two teams debated out of which were picked six men for the final debate to be held later in the term. The debates were held in Room 7 College Hall and in the Y. M. C. A. room. The results were as follows:

Team 1.—In Y. M. C. A. room: Nash, C. L., 1st; Spratt, W. C., 2d; Walker, W. R., 3rd. Judges—Leffler, Slobin, Prof. Gunson.

Team 2.—In Room 7, College Hall: DeCamp, J. C., 1st; Lyon, R. L., and Kurtz, E. E., tied for 2d. Judges—J. McClellan, Hensel, McPherson.

These men will meet in the final near the close of the term and the college team will be chosen.

'03.

B. S. Brown is now studying at Cornell university.

## ELECTRICAL EXHIBITION INTERESTING AND POPULAR.

One of the most popular places on the campus Thursday, Friday and Saturday afternoons of last week was the engineering building, the occasion being an electrical exhibition in charge of the departments of physics and electrical engineering, which was interesting alike to the expert and the untrained.

Noticeable among the facts brought out by the display was the rapid advance in the application of electricity to many things used in every day life which are now well nigh indispensable, but which 50 years ago were not known and have only come into common use in the past 25 years or less. And yet we are told that the present development is only the beginning.

A novel method of showing the development in artificial lighting was devised by having a series of rooms lighted by different means. The first which had the appearance of a log cabin was lighted with candles, the second with kerosene lamps, a third with Welsbach gas burners, and fourth several rooms lighted with different forms of electric lights, such as the common incandescent, tungsten, arc, and mercury vapor. A dismantled meter, so arranged that it could be instantly connected with two different makes of lamps giving the same amount of light, gave a vivid illustration of the economy of operation of one kind over the other. A private lighting plant, operated by a gas engine, was shown in another part of the building.

The application of electric motive power for household use was demonstrated in the electrical engineering laboratory by devices for pumping water for domestic use, running the washer, sewing machine, etc. In the large lecture room were shown experiments with static electricity and in other parts of the building demonstrations with insulators used in high power transmission, the wireless telegraph, the X ray, optical experiments, etc., were features of interest and excited much curiosity.

Most of the apparatus used in the exhibition is the property of the department but some of the lighting fixtures were loaned by Lansing merchants whose interest in the success of this first venture is to be commended. Much interest, not only among college people but among East Lansing and Lansing people as well, was evidenced by the well filled halls during the evenings. Though a matter of considerable extra labor the department should feel well repaid for its efforts. It will probably be made an annual affair.

'07.

J. C. Button has resigned his position as foreman of the Bitter Root stock farm in Montana and is now farming for himself at Novi, Michigan.



# The M. A. C. RECORD

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

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TUESDAY, MARCH 2, 1909

About a year ago there was printed in these columns a series of letters on college spirit, written by alumni in high standing in educational circles. **Alumni Spirit.** These articles served to bring forth many expressions from other alumni, as has also the suggestion of a fund for needy students.

While these statements have been loyal in their nature they have seemed not to ring with a genuine college spirit, a spirit issuing from the surcharged reservoir of appreciation of what the college has done for its students. Rarely can an institution be found giving such a high grade of training, with such an excellent equipment, and having such wholesome surroundings at so small a cost, and the apathy with which we as alumni are wont to show toward its progress is hard to explain.

An editorial in the *Cornell Alumni News* of recent date gives as an excuse for a similar condition of apathy existing in that institution simply that it is a state institution, and says that the indifference of the average graduate of a state university toward the institution that educated him is notorious.

Continuing the subject the *News* reprints the following curt comment from the *New York Evening Post*:

"The blame for niggardliness," says the *Post*, "must be divided between legislatures and graduates of state universities. President James, of Illinois, drove this home to his Chicago alumni the other day when he told them that, instead of protesting to him against the departure of a favorite dean to a more liberal institution, they should wring higher salary appropriations from the state. But this the alumni of Illinois have hitherto attempted no more than have the alumni of Michigan, Wisconsin, Minnesota, and Indiana. The graduates of the smallest New England college accomplish ten times as much for their *alma mater* as those of all these great universities combined do for theirs—and not in the matter of salaries or buildings alone, but in the development of an educational policy and the search for teachers. Minnesota and Michigan men today are thinking less about the successors of Angell and

Northrop than about next autumn's football schedule. Why should they do otherwise? *Alma mater* is a public charge, as much as any old hag in the almshouse; it is the state's business to look after her wants, and the private citizen who intrudes only takes work off some thankless official's back."

Happily M. A. C. is not forced to beg financial support from its alumni. During the past ten years it has prospered and so grown in favor that the state has seen fit to increase its permanent income three fold and has appropriated generously for new buildings.

What this college needs from its alumni is not money but active progressive alumni spirit which will boost M. A. C. at every opportunity.

## ENROLLMENT STATISTICS.

According to the records of the Registrar the student enrollment for the year 1908-09 reaches a total of 1364, or an increase of nearly 15 per cent over the enrollment for 1907-08. Of these 1132 are regular course students and the remainder special short course students. The regulars are divided among the various courses as follows: Agricultural 383, engineering 490, home economics 230, forestry 33. In this connection, however, it may be noted that only juniors, seniors and specials are included in the enu-

meration of forestry students, the lower classes being counted as agricultural students.

Of those classed as regular course students 3 are taking post graduate work, 116 are seniors, 125 juniors, 201 sophomores, 392 freshmen, 214 sub-freshmen, and 86 specials.

The special short courses show an increase of six over last year's enrollment, and are divided as follows: General agriculture 141, creamery 40, poultry 8, fruit 13, forestry 1, cheese 9. In the teachers' summer course in agriculture, held last summer, 30 were enrolled which are counted in the grand total.

The increase in students has made necessary additional instructors, of which there are, including experiment station employees, 119 on the regular pay roll. In addition to these are several instructors giving all or part of their time to instruction work who are paid on the department pay rolls.

The Liberal Arts Union has under consideration a plan for bringing the Players' Club from the University of Illinois to give "The Honeymoon," which they recently gave for two successive nights at the university, and which has been favorably commented on by the press. Prof. Wilson attended a rehearsal of the play while there a short time ago and is enthusiastic in his praise of it.



Left to Right: Campbell, c.; Hanish, l. g.; Merz, r. g.; Capt. McKenna, l. f.; Mills, r. f.; Belknap, r. g.; Dickson, r. f.

Above may be seen a picture of the basket ball team, which has won so much favorable notice by its excellent playing this year.

A. L. Campbell is a junior agricultural student, whose home is at Cheat Haven, Pa. Though young at the game, this being his first season on the team, he has shown up remarkably well at the center position.

C. Hanish is a junior engineering student, whose home is at Grand Rapids, Mich. Though light, he probably knows the game better than any other man on the team. He is playing his fourth year at guard.

E. H. Merz is a sophomore engineer. His home is at Detroit. He made the team in his freshman year, and is one of the mainstays of the aggregation. He plays the right guard position.

P. G. McKenna is a junior engineer from Quinnesec, Mich., and is one of the fast men on the team. He has not been outplayed at guard during the season. This is his third year.

H. W. Mills, a junior engineer from Adrian, is manager of the team, who can don a suit and play when necessary. He plays a forward position.

R. E. Dickson, a senior forester of East Lansing, is playing his fourth year as a star at the forward position. "Red" can always be counted on to hold up his end in fast playing.

L. V. Belknap, a senior engineer, is not shown, but has of late been playing right guard. He has been on the squad for three years. His home is at Whittemore, Mich.

## ALUMNI

with '79.

Frank Barnett with the above class is now living at Weston, Mich. His son, F. W. Barnett, is a sub-freshman at college.

'88

C. H. Redman is in the division engineer's office of the C. M. and St. P. R. R. Co., at Milwaukee, Wis.

'91.

F. W. Ashton, of the class of '91, is one of the prominent attorneys at Grand Island, Neb., and was a democratic nominee for congress from that district last fall. He came within twenty votes of being elected in a strong republican district, where 41,000 votes were cast, and the run he made was considered a little short of marvelous.

'99

A. Thorne Swift is now located at Grand Island, Nebraska, with the Tidball Lumber Co., wholesale dealers in lumber and grain. From his letter we quote the following: "I should be pleased to have you convey to all the members of the faculty who were so unfortunate as to have me under their charge my sincere personal regards."

'03.

From *The Daily Review* of Pacific Grove, Calif., we note an extended notice of the marriage of Mr. H. D. Severance of the above class and Miss Mary S. Swetnam, which occurred February 14. Mr. Severance is city engineer of the towns of Pacific Grove and Monterey.

'04.

G. C. Morbeck, '04, was recently elected to the legislature in the state of Idaho. In college George received the nickname Senator, which he seems likely to live up to.

'05.

L. D. Bushnell is assistant in the bacteriological department of the Kansas Agricultural College, Manhattan, Kansas.

Philip Wessels is assistant chemist at the experiment station at Kingston, Rhode Island.

Geo. R. Fryman is with the Loramer Steel Co., Johnston, Pa.

'06.

K. B. Stevens is now with the Consolidated Gold Mining Co. at Dewey, Idaho. "About four feet of snow here" he writes, "and THE RECORD is always mighty welcome out here in the mountains, 30 miles from nowhere." Mr. Stevens is pleased with the outlook for young men in that State. "Plenty to do and few to do it," is the way he characterizes the situation.

C. A. Lamb is civil engineer with the Ball Carden Co., of Dallas, Texas. The company is engaged in putting in a series of locks and dams on Trinity river about 45 miles from Dallas. His postoffice address is Crisp, Texas, Lock and dam No. 6.

'07.

A letter from N. C. Perry written from Missoula, Mont., states that he and E. A. Wilson, '07, expect to have a little M. A. C. celebration and reunion of their own in a few weeks. Mr. Wilson, as before noted, is at Hamilton.



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## ABOUT THE CAMPUS

Dean Bissell was in Grand Rapids Saturday where he spoke before the Grocer's Association on Methods of Burning Fuel.

Miss Florence Reeves has resigned her position as clerk in the office of the supt. of farmers' institutes to take effect April 1.

The Detroit Alumni, instead of the annual banquet, have been holding a series of parties throughout the term thinking that they can best promote the fraternal spirit by this means. They may have a general banquet later.

In the report of the chief of the bureau of plant industry of the U. S. department of agriculture for 1908 mention is made of experiments with mixtures of grasses for pasture and meadow purposes. This work is practically a duplicate of the work done by Dr. Beal on the land now known as the College Delta in 1890-92 in which he found that a mixture of eight sorts yielded 50 per cent more than the heaviest single sort.

A state oratorical contest will be held at the University of Michigan March 26 to select a man to represent the state at the annual contest of the International Peace Association to be held at Chicago in April. M. A. C. is entitled to a representative. The oration must deal with some phase of the subject of international peace or arbitration, and must not be longer than 18 minutes in the delivery. Prizes of \$75 and \$50 are offered for first and second honors respectively.

The National Berkshire Congress meets at the college March 16, 17, 18.

At chapel Wednesday morning Miss Gardner will deliver the oration which will be given at the Kalamazoo contest Friday night. Mr. Oviatt will deliver his Thursday.

At the democratic state convention held at Lansing last week, J. A. Taylor, of Allegan, and William Carpenter, of Goodrich, were nominated members of the State Board of Agriculture for six years; C. A. Dockstader, of St. Joseph, and B. T. Halstead, of Petoskey, for four years, and John Smith, of Gratiot, and R. V. McArthur, of Kent, for two years.

Last Friday morning five members of the junior engineering class appeared on the campus in the brown and white of the Tau Beta Pi. They were conducted to chapel where Dean Bissell gave an interesting talk and congratulated them upon their election. During the afternoon they were engaged in determining the difference in level between the top of Engineering Hall and the basement of College Hall with an improvised level and in constructing a telegraph line over which a message was sent in the Morse code. Saturday evening they were tendered a banquet at Club E. at which thirty were present. The newly elected men are Benton Cataline, W. J. Thome, C. C. Waterman, P. H. Piper and Gordon Cavanaugh.

A sale of poland china hogs will be held at the college March 10. A consignment of about 50 are expected and will be placed on sale.

LOST. - In Wells hall at the time of the "J Hop," a white silk muffler. It was entirely new and unmarked. Finder please leave at secretary's office and receive a liberal reward.

On account of a confliction of dates "The Vision of Hensel," which was to have been presented under the auspices of the People's Church Wednesday evening, has been postponed until next week.

The Union Literary Society entertained the faculty at their annual "faculty night" Saturday evening. Roll call was responded to by quotations from the faculty. After the program dancing was enjoyed until 10 o'clock.

Students, to the number of 30, who claim New York state as their home, have organized a New York Club. The officers are: J. S. Wells, Pres.; Katherine Koch, Vice Pres.; H. E. Dennison, Secretary, and S. A. Martin, Treasurer.

By snowing the juniors under, Wednesday evening, by a score of 20 to 13, the "naughty nine" class cinched the title of Class Basketball Champions. The winning of the basketball championship gives the '09 class the distinction of winning three class championships within a year's time: the 1908 baseball, 1909 football and 1909 basketball.

Pres. Snyder leaves for Boston, Mass., Thursday, where he will attend the annual banquet of the New England M. A. C. Alumni Association.

The Rochester, N. Y., "Y" team is scheduled to play two games with the varsity this week, one in the armory this evening, and one at the Y. M. C. A. building at Lansing Wednesday night. They are the New York State Champions.

The weekly meeting of the Y. W. C. A. was addressed by Rev. H. C. Wilson of the First Presbyterian church of Lansing on the subject, The Influence of Women. Mr. Wilson was especially interesting and is always greeted with enthusiasm by the local association.

About one year ago the agricultural department was authorized by the State Board of Agriculture to undertake the establishment of Co-operative Breeders' Associations as a means to improve the live stock conditions of the state. The efforts in this line met with phenomenal success. At the meeting of the State Board, held on Feb. 23, the experiment station was authorized to establish extension work in horticulture, soils and crops, thereby including the agricultural industries of the state. This work will consist of investigations intended to solve local problems, and will also include demonstrations and various educational features intended to stimulate a better agricultural practice.



## ATHLETICS

M. A. C. 20—BURROUGHS 19.

With the score standing 20-19 favor Burroughs Adding Machine Co.'s team, Hanish threw a basket just as time was called, thus saving the varsity from a defeat Saturday night at Detroit. With the exception of about the last five minutes of play Burroughs lead all the second half when a streak of fast consistent team play enabled the varsity to score six points, just enough to win the game. Failure to play their usual game, coupled with the strange floor and A. O. U. rules, was largely responsible for the fact that Burroughs kept the lead most of the time.

Those who saw the game were of the opinion that Burroughs had a very much stronger team than they presented on the armory floor earlier in the season, and this fact seems to be borne out by the comparative scores of the two games.

M. A. C. 53—ARMOUR 7.

Armour was easy Friday night, and as a result, the varsity had no trouble in running up a one sided score on them. Last year Armour defeated M. A. C. 28-27, and everyone expected to see a game resembling the Notre Dame contest, but at no stage were the meat packers in the running at all. In the first half they were lucky enough to get three points as the result of a field basket and free throw, and in the second half added four more points. McKenna seemed to take great delight in scoring field baskets, and came out of the game with 11 of the 25 to his credit. He also scored 3 out of 4 foul throws. "Red" secured 5 baskets, Campbell 4, Belknap 4, and Hanish 1. Merz was unable to be in the game owing to a recently sprained ankle, but his place was well taken care of by Belknap.

As a preliminary, the reserves defeated Charlotte "Y" by a 23-10 score. "Eddie" Nies, a former varsity pitcher, played with Charlotte.

D. U. S. DEFEAT FRESHMEN.

The freshman track team were badly beaten by the D. U. S. at Detroit Saturday night by a total score of 64-23. The Detroit team secured ten firsts and six seconds and won the relay. Friars for M. A. C. secured first place in the shot put. J. Spiegel was the star for the Detroit team.

*The Gander* is the name decided upon for the new college paper. It will make its initial appearance Friday.

The class of 1911 are laying plans for a college annual to be issued next year. Mr. F. E. Leonard is business manager.

Mr. Frank Crandall of Howell gave an illustrated lecture before the Farmers' Club, Tuesday evening, Feb. 23, on Dairy Type. He had an excellent supply of slides illustrating the good and poor types in the various parts of the dairy cow, to assist him in bringing these clearly before the hearers' mind. A good sized audience was in attendance and listened with interest to the speaker.

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## THE TECHNICAL CLUBS

Brief Reviews of the Meetings

### HORTICULTURAL CLUB.

"Fifty Years of Experimental Station Work," as outlined by Mr. C. B. Collingwood at the Horticultural Club last Wednesday, was enjoyed by all present.

Mr. Collingwood spoke particularly of the experimental farm at Rothamstead, England. The fifty years in which Lawes and Gilbert did so much for the advancement of agricultural science, marks an important period of investigation by European scientists and the establishing of most of our experiment stations. The investigations of sources of nitrogen in soil conducted by Lawes and Gilbert in England and Hellriegel in Germany, revealed the power of a certain class of plants, aided by bacteria, to utilize nitrogen in soil air. Their results seem to have removed all fear that the supply of nitrogenous fertilizers will ever become exhausted.

### ENGINEERING SOCIETY.

Mr. Marsh of the University of Michigan spoke before the Engineering Society last week on telephone practice.

The telephone was invented by Bell in 1876. Only private lines were used at first between two stations and the transmitter served the double purpose of transmitter and receiver. In 1878 a central exchange was installed in Boston in connection with a burglar alarm, and from that time on the number of lines increased rapidly. In 1890-'92 Bell perfected his switch board.

There will be no meeting of the society tonight on account of the program committee being unable to procure a speaker.

The Evert Lumbering Tool Manufacturing Co., Evert, have donated to the forestry department a full line of their products including cant hooks, pevies, pike poles, skidding tongs, grab hooks and loading chain.

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**GRANGER & GULLETT.**—Boots and Shoes. We shoe the students. See ad.

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**GEO. G. BLUDEAU & CO.**—Bookbinders, account book makers, paper ruling, library and fine art bindings, file boxes, map mountings, albums, pocket books, etc. Citizens phone No. 56. In City National Bank Building.

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

## CROCKERY AND GLASSWARE.

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

## DENTISTS.

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

**N. H. MOORE, D. D. S.** Office 411-413 Hollister Building, Lansing, Mich. Citizens phone 275.

**R. W. MORSE, D. D. S.** Hollister Block, room 517. Citizens phone 52, Bell phone 306.

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

## DEPARTMENT STORES.

**CAMERON & ARBAUGH CO.** Largest and best lighted store in Lansing.

## DRUGGISTS.

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

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

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## ELECTRICAL SUPPLIES.

**CAPITOL ELECTRIC ENGINEERING CO.**—Electrical Supplies and Toys, Telegraph Instruments, Students' Lamps and Extension Cords. 117 Michigan Ave. E.

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## FURNITURE DEALERS.

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

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**ORDER YOUR HACKS** for parties at Carr's Hack Barn. Livery in connection. 410 Washington Ave. N.

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**DAVIS & CO., 127 Michigan Ave. E.,** make all kinds of Fancy Ice Cream, Sherbet and Ices. Both Phones.

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

**LEAVE your Fine Watches and Jewelry** with J. J. Heath for repairs. He will please you.

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**JOSEPH FOSTER, M. D.**—Eye, Ear, Nose and Throat. Hours, 9 to 12 a. m.; 2 to 4 p. m.; Sundays 12 to 1; Evening 7 to 8. Corner Allegan St. and Capitol Ave., Lansing. Both phones.

## PHYSICIANS.

**DR. H. W. LONDON.** Office and residence M. A. C. Office hours from 7 to 8:30 a. m. and 12:30 to 2 and 6:30 to 8 p. m. Sunday office hours, 4 to 5 and 7 to 8 p. m. New phone 1500.

**DR. 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 1502.

## PLUMBERS.

**SHIELDS & LEADLEY.**—Plumbing and Heating. 300 Washington Ave. N., Lansing. Both phones.