

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 15.

LANSING, MICHIGAN, TUESDAY, DECEMBER 14, 1909.

No. 13.

## RADIOSCOPES FOR FRESHMEN.

Twenty-five little optical instruments known as Radioscopes have been purchased by the Chemical department and will be furnished along with the other apparatus to students entering that course. They are very similar to a microscope. Beneath the lense is placed a small square glass on the underside of which is spread a thin paste of zinc sulphide containing a small quantity of radium bromide. This device shows the effect of radium in throwing off emanations. These emanating particles thrown off by the radium bromide produce innumerable sparks when they strike the phosphorescent zinc sulphide and when viewed in a dark room have the appearance of shooting stars.

Another contrivance which is very unique is diffraction grating. It is a bit of gelatine enclosed between two thin glasses and having several thousand very fine lines photographed upon one surface. This separates the rays of white light, making them blend into the colors of the rainbow. By this means heated metals may readily be distinguished. These instruments were originally made by cutting about 3,000 lines per inch on the glass with a diamond point.

## THE NEW WEATHER OBSERVATORY.

The new station of the U. S. weather bureau, which is being built on the college campus just north of the postoffice, will be completed by spring. The building will have a very pretty view, overlooking the arboretum to the west and the varied landscape of the campus to the east and south. Although not an imposing structure, the building, which is being made of brick, will have that appearance of permanency which is so characteristic of Uncle Sam's houses, and will be a very dignified little edifice. It will contain fourteen rooms, not including hallways, and, while a considerable amount of floor space is given to the halls and corridors, nevertheless most of the rooms are comfortably large.

The building is of the square design so common to the south; has three stories and a cupola, which will be equipped with the ordinary observatory apparatus.

Mr. Dewey A. Seeley, who is now director of the station at Peoria, Ill., will have charge when completed.

## FARMERS' MEETING.

The college was well represented at the State Association of Farmers' Clubs, which met in Lansing last week. L. Whitney Watkins, '93; A. B. Cook, '93; B. A. Holden, '91; Henry T. Ross, '04, and perhaps other alumni were present.

Mr. B. A. Holden was elected president for the coming year. The college men have always been a potent influence in this organization.

## MICHIGAN ORATORICAL LEAGUE.

The constitution of the Michigan Oratorical League as revised in 1909 has just been published in book form. Dr. Blaisdell, who is in charge of the archives for the permanent preservation of the constitution, by-laws, books, papers, etc., received the first copies here.

The league is composed of the following colleges: Adrian, Albion, Alma, Hillsdale, Hope, Kalamazoo, Michigan Agricultural, Olivet and State Normal. The state contest will be held the first Friday in March at this college. We will not get the contest here again for nine years, as the constitution decrees that the debates shall be held at the colleges consecutively in their alphabetical order.

The question to be debated reads as follows: "Resolved, That each Michigan city of twenty-five thousand population or over should be governed by a commission of not over nine men, to be elected at large, constitutionality conceded." For the interscholastic debate Ypsilanti has decided to defend the affirmative.

The Debating Club will hold its first preliminaries on the second Friday night of the winter term. Five full teams of six men each have already been chosen. The club hopes to make up the sixth. It is very well satisfied with the question as stated.

Mrs. Landon has kindly reserved a table in the library for material on the subject, and will try to add to the material already there. Mr. Fish, instructor in public speaking, will also give his assistance in finding material.

Those wishing to join a team may do so by submitting their names to Mr. E. L. Rodegib, or some one connected with the Club.

At the business meeting held December 2nd, the following officers were elected for the winter term:

President—E. L. Rodegib.  
Vice-president—A. H. Perrine.  
Secy. and Treas.—H. B. Wales.  
Press Reporter—A. P. Pulling.  
Chairman of Program Committee—E. E. Kurtz.

## ECLECTIC SOCIETY.

On the evening of Saturday, Dec. 4th, the Eclectic Society gave a smoker for the alumni and for the new members. Mr. J. E. Hammond and Prof. H. S. Reid were among the alumni members present. Early in the evening the following literary program was greatly enjoyed: A declamation by G. H. Newhall, a musical number by the Tic Trio, an interesting talk on the Detection of Bacteria in Water by R. L. Taylor, and a very interesting and humorous account of "My Summer's Experience as a 'Con' on the M. U. R." by C. D. Forster.

A valuable addition of about a hundred well selected volumes of recent fiction, as well as complete editions of Scott and Thackeray, was recently made to the society library by the alumni association.

## ANOTHER TERM ADDED.

The equipment of the engineering department is steadily growing, and beginning with the coming year the instruction will be increased to another term. The alumni who graduated previous to the establishment of the new testing laboratory would be interested in the various machines, their permanent arrangement and the various novelties of construction which the eye meets about the shops.

How was it boys, years ago when you had to take a machine down to make room for another when you wanted to make a test or carry out an experiment not in the regular course? Well, that time is over now.

In the testing room are four steam engines, one 7" x 10" automatic cut-off, one 8" x 13" x 12" similar design tandem compound, one 9" x 14" simple slide valve supplied with throttling governors, and one 12" x 30" Nordberg corliss long stroke, cut-off type, with cut-off ranging from practically 0 to 8-10 or 9-10 of the stroke.

These engines are used entirely for testing and valve setting, and are all arranged so that they can be run condensing or non condensing. The exhaust steam may be turned into the heating system.

One 10 h. p. Kerr turbine, which has been in the shop for three years, but out of order, will be in shape to run next term.

One of the most interesting mechanisms to the novice is an improved Ericson hot air engine. In reality it is a boiler and condenser combined, and uses the same volume of hot air over and over again. The engine is not built in large units, and is used only for domestic service. It is not very efficient from a thermal standpoint.

There are two oil engines; one gasoline and one kerosene, both developing 4 H. P.

The engineering building is being installed with a new hot water heating system, known as the "Rapid Heater" system. By special device known as the Honeywell generator, the water may be confined to very high pressure. Another small hot blast heating system has been arranged for experimental purposes.

The two large dynamos formerly used in generating the current of the lighting system are now used in experimental work.

Among other things of interest is a duplex pump, used to furnish cooling water for the condensers, a 12" Pelton water wheel and a group of injectors.

Two large and powerful machines in another apartment are the "Piehle" testing machines. The larger one, operated by electricity, will generate a pressure of 100,000 pounds. The smaller, a hydraulic machine, will generate 50,000 pounds pressure. The stability of woods, cast iron, and steel of various tempers is measured on these machines. A round piece of cast iron about an inch in diameter was crushed endwise under a pressure of 90,000 pounds.

## ALUMNI

'88.

"Paul M. Chamberlain, '88, has opened an engineering office at 1522 Marquette Building, Chicago, and is prepared to furnish plans, estimates, and superintendence for new plants, and the improvement of old ones. He will give special attention to power plant and factory equipment, fuel economy and smoke abatement. His previous connections as engineer with Frick Company of Waynesboro, Pa., Hercules Iron Works of Aurora, Ill., McGan Mechanical Works of Los Angeles, Cal., and The Underfeed Stoker Co. of America, together with consulting work while professor of mechanical engineering at Lewis Institute, Chicago, prepares him to serve clients to their best advantage." He was at one time on the engineering faculty of the college.

'93.

Dwight S. Cole, '93, is in charge of design and testing with the Drake-American Steam Turbine Co., of Grand Rapids. His address is 159 S. Lafayette St.

'95.

The paper prepared by Prof. H. R. Smith ('95), on "The Problems of Meat Production in the Corn Belt," and read before the meeting of the American society of animal nutrition the opening day of the exposition, met with much favor, because of the suggested means of improving both the supply and the quality of beef in the United States. The paper was published in several Chicago dailies, including the Sunday Tribune. — *Nebraska State Journal*.

Of course Nebraska figured prominently at the International Live Stock Exposition.

'00.

Harriette Robson '00, is teaching in Leadville, Colorado.

Miss Bertha Malone, '00, is critic teacher in the State Normal at Dillon, Montana. She has been there two years.

'02.

M. B. Stevens, '02, and wife, Elizabeth Johns Stevens, '04, were visitors at the college Monday.

W. R. Shedd, '02, called at the college a few days ago. He is with the Barber Coleman Co., manufacturers of cotton spinning machinery. He is gathering information relative to the building of a new power plant. His address is Rockford, Ill. B. A. Peterson, '02, is with the same firm.

with '02

W. R. Wright, with '02, formerly assistant in Bacteriology has left Stillwater, Okla., and is now assistant in the research work of the dairy department of Purdue University under the Adam's fund.

'04.

A. R. Carter, '04, is assistant to the city engineer of Rockford, Ill.



# The M. A. C. RECORD

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

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Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.  
Address all subscriptions and advertising matter to the College Secretary, East Lansing, Mich. Address all contributions to the Managing Editor.  
Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St., East Lansing, Mich.

TUESDAY, DEC. 14, 1909.

## PROF. FRENCH BACK FROM MILWAUKEE.

Professor French has returned from the third annual convention of the National Society for the Promotion of Industrial Education, with a magnificent grist of ideas. It was a memorable occasion, on every hand suggestive of the startling progress of the new education and impressive of the need of practical work in the schools.

The general topics discussed during the program were as follows: "The Economic Value of Industrial Education," "State Legislation," "Trades Schools," "National Legislation," "Evening Schools," and "Industrial Education at Home and Abroad."

Many notable and interesting speakers were on the program, and the subject was given a complete airing from all sides.

Arthur D. Dean, Chief of Division of Trade Schools of New York, spoke upon the subject of "What the State Can Do to Assist Industrial Education." The central thought of his address was that the public schools must be re-directed in terms of their environment. He said that the curriculum of the public high school must extend in three directions: First, toward college; second, toward commercial life; and third, toward industrial and agricultural education. He advocated that the compulsory age be raised to sixteen years, and that the State as a whole give special aid toward industrial education.

Charles L. Perry, director of the public schools of trades of Milwaukee, took for his subject, "The Trades Schools as Such." He stated that these schools should be under the control of the local boards of education, and that the minimum age for entrance should be 16 years. He thought they should receive state financial aid, and that they should be limited in number to one school to each county. The attendance at these schools should be made compulsory for those who entered. Inasmuch as they were partly supported by the state, and that they necessitated state control, they should be established by the authority of the state.

The President of Ohio Mechanics Institute at Cincinnati, Mr. John T. Shearer, gave an eloquent address. He was one of the most interesting men on the program. His subject was "Evening Schools." "Evening Schools," he said, are an apparent necessary evil. The hours of 7:00 to 9:00 p. m. should be spent in the home but society does not

conform to that rule." Mr. Shearer credited the churches with having endeavored to counteract by offering healthy amusement, but inasmuch as the boys and girls of the cities persist in amusing themselves elsewhere, the public evening school has a duty in the light of social conditions, and should be established in every city. Mr. Shearer mentioned sixteen years as the proper minimum age for entering and thought that free evening schools were not desirable, that a small tuition should be charged.

One particular point in his address was that the field of the evening school was limited especially to elementary and industrial lines.

A very startling statement was made at the evening meeting by Mr. John Golden, when he informed the society that 25,000 young men and women were taking technical courses in correspondence schools. "What these young people need," said he, "is the personal touch of a live teacher." The trades unions favor technical and trades schools, but insist that all graduates shall take a short apprenticeship."

Mr. Golden was the only man on the program who was not directly interested in industrial education. He is a trades union leader.

There was one general conclusion arrived at by nearly all the speakers; that the schools can train a workman better than he can be trained by a foreman under the apprentice system.

Germany was often mentioned as America's future competitor, the argument being based on their intensive methods of farming.

President Umphreys said that the securing of culture is determined by the attitude of the individual to his subject.

## HOG CHOLERA SERUM.

Technical Bulletins, Nos. 2 and 3, have just been published by the director of bacteriology and hygiene of the experiment station. No. 2 is a continuation of the first one published in June, 1908. It deals with the influence of salt and the decomposition of proteins in the keeping qualities of butter. No. 3 is entitled "Studies of Agglutination Reaction in Hog Cholera During the Process of Serum Production." The serum method of preventing and fighting hog cholera, known as the Dorset-Niles method, is being worked out with apparent success, since the Bureau of Animal Industry at Washington turned it over to the experiment stations over a year ago. The chief of this bureau called a conference of those endeavoring to manage the disease. This conference met the second of this month at the Auditorium Hotel in Chicago. The states of Ohio, Indiana, Iowa, Kansas, North Dakota, Minnesota and Michigan, and the Bureau of Animal Industry were represented. Dr. Marshall represented M. A. C.

The future outlook for serum is very bright. The experiment station has sent out over 75,000 cc. since it has begun its investigations, and has had many favorable reports.

'05.

Miss Katherine McNaughton, '05, of Middleville, Mich., visited the college Friday.

C. A. Reed, '05, is nut specialist in the Bureau of Plant Industry at Washington.

## Y. M. C. A. NOTES.

Sunday night's meeting was favored with a duet by Miss May Herbert and Mr. Ray Turner and a solo by Mr. Turner. Dr. Nadal of Olivet college gave an exceptionally strong and convincing address on "The Real Question."

The devotional committee has outlined a series of mid-week meetings for the winter term on "College Problems," to be led by college men. These promise to be exceptionally interesting and profitable.

The Y. M. C. A. will be headquarters for information to the short-course students concerning rooms to be had in East Lansing. For this reason it is desired that residents in East Lansing having such rooms inform the general secretary to this effect by mail, giving details of location, etc.

## "HOW STATUES ARE MADE."

Prof. Lorado Taft, instructor in sculpture in the Chicago Art Institute, delivered Wednesday evening, Dec. 8th, the third of the series of entertainments given by the Liberal Arts Union. The armory was well filled and the audience had the pleasure of listening to a very excellent lecture.

Prof. Taft has that ease of saying things, that keen insight and witty humor so characteristic of an artist. The relation of things serious to things frivolous is a constant pleasure. At times when one feels that the sculptor is just about to drift into some weighty moralization he all at once rises into a burst of humor and the audience roars with laughter.

Prof. Taft demonstrated in good shape that to be a sculptor one must be a close observer of forms. The minutest details of the face are very expressive. He characterized one kind of sculpture as being "epidermal," which was his way of saying that the beauty of that work "was only skin deep."

After he had finished his introduction he donned an apron and took up the problem of features, proportion and expression. In this he proved to be somewhat of an anatomist. He began by saying that the human face was made merely for our pleasure. He demonstrated with a large model just what muscles and how they worked together to produce various expressions. He spent some moments in explaining in his witty way the meaning of some of those expressions.

He next made a bust of Mr. Crunelle, his assistant. This Mr. Crunelle made over into the head of a beautiful young woman, while the lecturer worked and talked upon other models.

The clay portrait of the Princess of Lamballe, a young and lovely girl to begin, but, growing old before our eyes, was an interesting part. The muscular mask was lightly touched upon, the artist mentioning only the more important requisites.

He took up the making of masks and showed to the audience some very beautiful ones, among which was a head very similar to the little Bambino, interesting however in that it was made from life by a student at the institute.

He closed by saying that this student's name was Leonardo, and that his name will some day be a famous one.

## THE STATE HORTICULTURAL SOCIETY MEETING.

The 39th annual meeting of the Michigan State Horticultural Society was held at Kalamazoo on the 7th, 8th, and 9th in conjunction with the Kalamazoo Fruit Growers Society. It was one of the most successful meetings that the Society has held in recent years, and the good, profitable fruit crops of the past year was manifest in the large attendance and the good feeling that was everywhere evident. The fruit exhibits were very large, and probably could be accounted for to some extent, by the fact that a large and attractive list of premiums had been offered by nurserymen, fertilizer manufacturers, publishers and manufacturers of spray outfits.

Several members of the faculty of the Michigan Agricultural College appeared on the program, and the annual banquet for the Society which was held in the Elk's Hall on Tuesday evening, was a very pleasant feature of the meeting. Mr. Thomas Gunson presided as toastmaster in his inimitable way.

Quite a number of junior and senior students attended and entered the students' fruit judging contest. The State Horticultural Society offers to the horticultural students of the college three prizes — \$15, \$10, \$5 respectively. These prizes are awarded to the students who excel in judging the varieties of fruits on the exhibition tables. The prizes this year were awarded to Mr. U. S. Crane, of Fennville; Mr. C. B. Tubergen, of Grand Rapids; Mr. R. W. Voorhorst, of Leroy.

At the close of the meeting on Wednesday afternoon there was an impromptu gathering of M. A. C. men, and a large number were called upon for short talks. One of the pleasant features of the gathering was two members of the class of '88, who were present and gave their class yell. Before the meeting broke up it was decided to organize the M. A. C. students, who are now interested in fruit growing in Michigan into an experimenters' league, the object of which will be to carry on horticultural experiments on their fruit farms and announce their results at the meetings of the State Horticultural Society. This work will be largely in co-operation with the department of horticulture.

The following is a nearly correct list of M. A. C. alumni and students present at the meeting: (In some cases the students are with the class indicated and not graduated.)

M. D. Buskirk, '85,	C. A. Reed, '05.
C. E. Bassett, '86,	C. A. Pratt, '06.
O. S. Bristol, '82,	O. K. White, '07.
C. B. Cook, '88,	O. I. Gregg, '07.
L. A. Bregger, '88,	R. L. Pennall, '07.
Paul Thayer, '00,	G. W. Lindsley, '07.
J. H. Skinner, '01,	H. A. Taft, '09.
H. J. Eustace, '04,	R. G. Voorhorst, '10.
C. A. Seeley, '01,	J. A. Miller, '10.
W. S. Palmer, '02,	C. E. Smith, '10.
R. G. Thomas, '03,	G. C. Wagner, '10.
B. A. Wermuth, '03,	C. B. Tubergen, '11.
S. B. Hartman, '03,	L. E. Babcock, '11.
U. S. Crane, '11.	

The only occurrence that marred the meeting was the fire of the Burdick Hotel. The members of Horticultural Department, as well as a good many members of the society, lost their baggage. It was fortunate that the students who attended the meeting were guests at another hotel and so escaped this unpleasant feature.



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COLLEGE BUS HEADQUARTERS

## ABOUT THE CAMPUS

The "Old Penn Weekly Review" has established an "Alumni" column.

The new building of the People's Church will be started the first thing in the spring.

Wednesday is student's pay day for the last half of term. Don't forget to call at secretary's office.

The People's Church of East Lansing will hold its second anniversary service Sunday, Dec. 19th.

The legislature of Oklahoma has given its University \$25,000 for the installation of a printing plant.

The dedication of the new agricultural building will probably take place along with the commencement exercises next June.

The party who lost his ticket to the Liberal Arts Union entertainment course can have same by calling at secretary's office.

Prof. Jeffries spoke before the Fruit Ridge Grange last Saturday evening. This is the home grange of the Hon. Geo. B. Horton.

The Michigan Engineering Society will meet in Lansing, Jan. 11th, 12th, and 13th. They will probably visit the college, and will possibly hold one session here.

Dr. Marshall and Dean Bissell will attend the meeting of the American Association for the Advancement of Science to be held in Boston this year. The latter is secretary of the engineering section. There is some talk of holding the next meeting at Honolulu.

Postmaster Rosecrans received his formal appointment last week.

The new agricultural building is about to be turned over to Dean Shaw.

The hospital barn is being fitted up for the care of sick animals and the isolation of diseased ones.

The new programs for the winter term are now on display in the library and on the bulletin boards.

Dr. G. D. Shafer and Dr. Marshall attended the meeting of The Council of the Michigan Academy of Science at Ann Arbor. Dr. Shafer is secretary of the Council.

The chemical laboratory and lecture room are now supplied with fresh air by means of a large fan, which is driven directly by a motor. The air is first heated by a steam coil placed inside a large pipe leading into the fan.

February 25 has been selected for the annual Junior hop, which will be held at the Masonic temple. The class is composed of about 150 members. Frinzel's orchestra of Detroit has been engaged. The arrangements are in charge of the following committees: Banquet, Mr. C. E. Roe, Lansing; programs, Mr. G. H. Hayes, Pittsburg, Pa.; music, Mr. Van Waggoner, Colorado; stationery, Mr. G. H. Buckley, Spring Lake; hall, Mr. Stanley Martin, New York; decorations, Mr. John Cornwell, Bad Axe; eligibility, Mr. Buehle; finance, Mr. Charles Tubergan, Grand Rapids.

### TIC-OLYMPIC.

The annual 'Tic-Olympic smoker was held in the Olympic Society rooms Saturday evening, December 11. A crowd of about seventy 'Tics and Olympics, including several alumni and faculty members, assembled about nine o'clock and proceeded to crown old Williams Halls with a hazy blue halo. The Olympic orchestra furnished excellent music for dancing, and at ten thirty a sumptuous feed was enjoyed in club A. The feed was followed by toasts by members of both societies, J. D. Mac Lachlan, acting as toastmaster.

### EUNOMIANS INITIATE.

On last Friday night Messrs. Hammond, Russell, Hutchins, Cowing and Sanborn were initiated in the society's literary rooms in Wells' Hall (and other places). The number is now increased to about thirty members. Twenty of these participated in making good fellows of the five "victims." After the exercises, Mr. Iddler took a flashlight photograph of the group.

Any one wishing to know who Lorado Taft is may find a short biography in the Liberal Arts Union circular.

'08.

C. H. Southerland, '08, is a cement inspector at Birmingham, Mich.

### EUNOMIAN TEN O'CLOCK.

A very delightful ten o'clock party was given in the Eunomian rooms, Saturday evening, Dec. 11. The entertainment took the form of a Garten House Schule, and Ed. Linderman as the German Prof. made a decided hit. The school stunts were mostly original, and the songs and jokes on the members and guests brought out many rounds of laughter.

The west room was decorated as genuine Garten House Schule room, with desks, blackboard, and maps, and the school kids, from Little Willie Green to Arabella Holcad were each founced out for the occasion.

After school all joined in the Kaffee Klatsch, consisting of a German luncheon. About thirty five couples were present. Prof. and Mrs. Wilson and Mr. and Mrs. E. A. Towne of Lansing acted as patrons.

Mr. E. I. Wilcox, '08, of Cedar Falls, Iowa, was one of the guests.

### THE CEDAR RIVER BRINGS ITS WOE.

The Cedar River has claimed two more victims. Now don't get excited; they didn't drown, just ducked. Owing to the thinness of ice, two students who were skating just above the farm lane bridge last Saturday afternoon, were compelled to take a cold immersion that they won't forget for many moons.



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### FARMERS' CLUB.

The following were elected officers of the Farmers' Club for the coming term:

President—R. Taylor.  
Vice-President—J. Chapin.  
Treasurer—H. Knoblanck.  
Secretary—J. Hayes.

Mr. J. Johnson and J. W. Chapin gave short talks on "Beans in Michigan." The club has just closed one of the most successful terms in its history. The attendance has been very good, as well as the programs. This year's delegation to the International was a record breaker. It is hoped that many more students will take advantage of the series of splendid talks offered by the club during the winter term. The club expects to be able soon to move into its new quarters in the new agricultural building, where a room has been set aside for its use.

### OLYMPIC.

At the meeting Saturday night, which closed the fall term, the Olympic society elected the following officers for the winter term:

President—R. S. Wheeler.  
Vice-president—H. S. Peterson.  
Recording Secretary—W. E. McGraw.  
Treasurer—C. H. Chilson.  
Corresponding Secretary—F. C. Barlow.  
Editor—R. S. Russell.  
Marshall—E. P. Wardel.

### COLUMBIAN LITERARY OFFICERS.

The Columbian Literary Society met in its rooms Saturday evening and gave the following program, which was designed to be wholly a Christmas one, the quotations being selected from Christmas sayings.

H. D. Sanford gave a Christmas recitation; D. D. Wood, a solo; Christmas reading, L. P. Walker; a paper by E. Horst, describing Christmas rites and practices in other countries.

Many friends of the members were present, all enjoying a good lively hour and some light refreshments.

At the business meeting following, the following officers were elected to act the next term:

President—P. H. Piper.  
Secretary—W. B. Orr.  
Vice President—L. P. Walker.  
Marshall—W. H. Martin.

It was decided to hold an eleven o'clock party in the Armory, Jan. 15.

### RESOLUTIONS.

Whereas, The ruling hand of Providence has removed a mother from the home of one of our members, Miss Muriel Twiggs, be it

Resolved, That the Class of 1910 extend to herself and bereaved family and friends their profound sympathy.

J. W. CHAPIN,  
L. W. DOUGHERTY  
Committee.

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

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