The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.


RADIOSCOPES FOR FRESH-MEN.

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

Another contrivance which is very unique in diffraction grating. It is a bit of gelatin enclosed between two thin glasses and having very small spaces between the two 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 These instruments were originally made by cutting about 3,000 lines per inch on the glass with a diamond point.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 OBSERV. AYI.

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. This station will have the very pretty view, overlooking the arboretum to the west and the varied scenery 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 underground is being made of brick, will be a very pretty view, overlooking 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. Devey 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. W. McLeod, of Hillsdale, C. E. R. Cook, '93; E. A. Holden, '91; Henry T. Ross, '10, and perhaps others, were among the alumni members present. Early in the evening the following list of resolutions was given:

By a declaration by G. H. Newhall, a musical number by the Thursday Club and a review of the Detection of Bacteria in Water by R. L. Taylor, and a very interesting address by Miss M. M. Sumner's Experience as a 'Con' on the M. U. R. by C. D. Forster.

Two large and powerful machines in another department are the testing rooms for field testing station, the larger one, operated by electricity, will generate a pressure of 100,000 pounds. The smaller, an air hammer, will generate 9,000 pounds pressure. The stability of dull iron, and the steel iron of various temperatures is measured on these machines. A round piece of cast iron is first heated to an inch and then is crushed endwise under a pressure of 90,000 pounds.

ALUMNI.

"88.—Paul M. Chamberlain, '88, has opened an engineering office at 1334 S. Dearborn, Chicago, and is now 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, and economy and efficiency. His previous connections as engineer with Frick Company of Waynes­ town, Pa., and in the United States, Aurora, Ill., McColl Mechanical Works of Los Angeles, Cal., and the Lehigh Valley 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.

Dwight S. Cole, '89, is in charge of design and testing with the Drake American Steam Turbine Co. of Grand Rapids. His address is 159 S. Lafayette St.

The paper prepared by Prof. H. B. Smith, '93, on "The Problems of Meat Production in the Corn Belt," was read at the annual meeting of the Michigan Agricultural Club.

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

Miss Bertha Maloney, '95, is critic teacher in the State Normal at Dil­ lon, Montana. She has been there two years.

M. B. Stevens, '92, Arthena, and Professor Stevens, '89 were visitors at the college Monday.

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With '02.

W. R. Wright, with '02, former­ ly assistant in Bacteriology has left Stillwater, Okla., and is now assist­ ant in the research work of the dairy department of Purdue Univer­ sity under the dean's fund.

A. L. Story, '04, is assistant to the city engineer of Rockford, Ill.
Professor French has returned from the third annual convention of the National Society for the Promotion of Industrial Education, with a magnificent gest of ideas. It was a magnificent journey, and suggestive of the startling progress of the new education and the impressive field of work in the schools.

The general topics discussed during the three days followed: "The Economic Value of Industrial Education," "State Legislation on Industrial Education," "The National Legislation," "Evening Schools to Aid Industrial Education at Home and Abroad."

Many notable and interesting speakers were on the program, and the sessions were given completeness from all sides.

The French Door, Chief 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 toward commercial and industrial lines.

Charles L. Perry, director of the Bureau of Animal Industry at the college, delivered Monday a lecture, "What these young people need," and showed to the audience some of the best photographs illustrating the society that 25,000 young men and women are taking technical courses in correspondence schools.

"What these young people need," said he, "is personal tuition of a live teacher." The trades unions favor technical and trade schools, but it is insist that all graduates shall take a short apprenticeship.

Prof. Goldstein 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 apprenticeship system.

Governor Taft, as often mentioned as America's future competitor, the argument being based on their intention to make a better organization and method of governing.

President Uppphey's said that the securing of a cure is determined by the attitude of the individual to his subject.

**HOG CHOLERA SERUM.**

Technical Bulletin, 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 decomposed residue of the coliform bacteria on the quality of butter. No. 3 is entitled "Studies of Agglutinative Reaction of the Walls of Serum Production."

The serum method of preventing and checking hog cholera, known as the Dorsey-Niles method, is being worked out with apparent success since the State Board 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. The conference met this second of this month at the Auditorium Hotel in Chicago.

The states of Ohio, Iowa, Kansas, North Dakota, Minnesota and Michigan, and the Bureau of Animal Industry were represented. Dr. Marshall represented the state.

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

"The M. A. C. RECORD.

**THE STATE HORTICULTURAL SOCIETY MEETING.**

The 98th annual meeting of the Michigan State Horticultural Society was held at Kalamazoo on the 7th, 8th, and 9th in conjunction with the State Horticultural Society. It was one of the most successful meetings that the society has ever held. The society had a 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 the visiting of the various exhibits and the competition for the trophies, to some extent, by the fact that a large and attractive list of premiums had been offered by numerous firms, fertilizer manufacturers, publishers and manufacturers of spray outfits.

**HOW STATUES ARE MADE.**

Prof. horo Taft, assistant in sculpture in the Chicago Art Institute, delivered Wednesday evening at the evening meeting of the society that 25,000 young men and women are taking technical courses in correspondence schools.

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Great Suit and Dress Sale

We shall place on sale in our Cloak Department every Woman’s Suit and Dress we have in stock at a great reduction in price. Every garment is new and the very latest style. Come to this great sale and save money.

$20.00 WOMEN’S TAILORED SUITS $15.00
Regular $25.00 Women’s Tailored Suits, all made and tailored in the latest style. Come in black and blue broadcloth.
A great suit value .......................... $15.00

$35.00 WOMEN’S TAILORED SUITS $25.00
Take your choice of any Tailored Suit in our stock.
Regular value, $35.00; special ................ $25.00

CAMERON & ARBAUGH COMPANY

SPECIAL SALE OF FURS

ALL THIS WEEK

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About the Campus

The “Old Perm 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 new building of the People’s Church of East Lansing 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 new building 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.

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

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 “Robert House School,” and Ed Linderman as the German Prof. made a decided hit. The school stories 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 decks, blackboard, and maps, and the school kids, from Little Willie Green to Arabella Holcomb were each furnished 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. A. A. Towne of Lansing acted as patrons.

Mr. E. L. 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 thickness 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—T. Taylor.

Vice President—D. J. Chapin.

Secretary—H. Knoblauch.

Treasurer—J. Hayes.

Mr. J. J. Johnson gave a short talk on "Beans in Michigan." The attendance has been very, 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. Chilling.

Corresponding Secretary—F. C. Barlow.

Editor—R. S. Russell.


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 readings being selected from Christmas sayings.

H. D. Sanford gave a Christmas recitation; J. 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.

COLUMBIAN LITERARY OFFICERS.

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

President—P. H. Piper.

Secretary—W. B. Orr.


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 one of our members, Miss Mabel Twigg, 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.

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

President—P. H. Piper.

Secretary—W. B. Orr.


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Students.

See the Maire, Mexican and other imported papers. They make fine programs.

All printing is 10c. per line regardless of the length of the line.

Free proof, galley proof, etc.

CLOTHING.

J. W. KNAPP & COMPANY.

LANSING'S BUSY RELIABLE STORE.

THE REAL TESTS.

Of good underwear are warmth, wear and washing. Warmth means wool and plenty of it, or a fine cotton fabric closely woven. Wear is too often a matter of conjecture. The washing qualities can only be demonstrated in the tub. Good underwear is firm and non-shrinking. It is in these essential qualities we recommend our "Munsingwear" underwear. It is thoroughly good, perfect fitting, all flat seams, which makes it comfortable, and its washing qualities makes it the most satisfactory underwear at popular prices that can be produced.

LADIES’ UNION SUITS—$1.00, $1.50, $2.50, $3.00, $4.00, $5.00 and $6.00 each.

MEN’S UNION SUITS—$1.00, $1.50, $2.50 and $3.00.

J. W. KNAPP & COMPANY.

The wise man never leaves school.

We are always in the school of dry goods, ever trying to improve our business and advance the interests of our patrons. This is the reason we want to talk to you about quilts, bed spreads, cotton sheets, pillow cases, pillows, 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.

DANGEROUS BROGAN & Co.

LANSING'S LEADING STORE.

DIRECTORY.

LANSING BUSINESS AND PROFESSIONAL MEN.

The names in this directory, as well as those of all our other advertisers, are of reliable parties. We hope that the faculty and students will take pains to patronize those who patronize us.

NEW FALL STYLES.

Misses’ and Women’s Coats, Dresses, and Suits.

M. A. C. Gymnasium Suits for Young Ladies, $3.50.

RUGS—CURTAINS—ROOM FURNISHINGS.

SIMONS DRY GOODS CO.

104 Washington Avenue South.

H. L. LANZER—China, Glass & Lamps.

201 Washington Ave. N.

PHYSICIANS.

B. D. G. HUBER.

310 Michigan Avenue South.

SUNDAY, 10:30 a.m.

Dr. W. L. LEE.

190 Michigan Avenue.

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