

# The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 7.

LANSING, MICHIGAN, TUESDAY, APRIL 29, 1902.

No. 31

## NOTICES.

The Hort. Club meets tomorrow (Wednesday) evening.

Baseball Saturday, Olivet vs. M. A. C. Come out and help the team win.

Meeting of RECORD editors Thursday 7 p. m., College Hall, No. 7.

Rooms for next fall may be reserved next week. See bulletin board notices.

Athletic hop Friday night, Armory, 7 o'clock. Benefit of Athletic Union. Come out everybody.

An umbrella has been left at the physics laboratory since last term. Owner will please call for same.

The 16-lb. hammer belonging to the athletic union has been lost. Finder will please return to the union.

Lost, somewhere about the campus, a gold-filled hunting case watch, belonging to W. Toan, with O. T. marked on the case.

Prof. Osborn, of Olivet, will lecture on wireless telegraphy in Pilgrim church Friday, 8 p. m. Admission, 10 and 15 cents. Tickets on sale at the postoffice.

## M. A. C.-NORMAL DEBATE.

YPSILANTI GETS THE UNANIMOUS DECISION OF THE JUDGES.

A fairly good sized audience greeted the M. A. C. and Normal debaters Friday evening in the Armory. The night was rainy and some were doubtless kept away but all who did attend heard a spirited and instructive discussion. The question was, "Resolved: That the policy of our government should be to hold the Philippines as a permanent part of the territory of the United States." Ypsilanti upheld the affirmative, M. A. C. the negative.

Mr. E. C. Kellog, the first affirmative speaker, contended that it is not a new policy on the part of the United States to hold acquired territory. "The negative," the speaker said, "must support one of two propositions. (1) The islands may be held temporarily, or (2) they may be abandoned, either by immediate withdrawal or by sale." Two questions were then proposed for the negative to answer: If it is wrong to hold the islands permanently, is it right to hold them temporarily? If it will be unprofitable to hold them permanently will it be profitable to hold them temporarily? If permanent possession is wrong we must withdraw now. If we withdraw immediately, to whom shall we surrender them? Moreover the permanent retention of the islands will be of benefit to (1) the United States and to (2) the Filipinos, themselves. Furthermore, we have a moral obligation to perform. Spain ceded the sovereignty to the United States. Our title is recognized the world over. Peace is practically established and the majority

of the Filipinos do not want independence.

Mr. Dail in the beginning of his remarks stated that the commercial advantage of the islands to the United States would be granted by the negative but said further that the commercial advantage was not the ground upon which the discussion of the question must rest. There are three ways by which we may deal with the islands. (1) We may hold them as territory looking towards statehood or we may admit them to statehood at once (2) we may hold them as permanent dependencies. The Filipinos are either capable of self government or they are not. If they are capable of self government, they should have, ultimately, independence; if they are not, it is undesirable that they form a part of the United States government, for no Teutonic people has ever successfully incorporated into its body-politic an alien race and we have one race problem on our hands now. To govern them as dependencies, it will be necessary to change our government to that of the English Cabinet system for our ponderous constitutional machinery is not adapted to a colonial policy.

Mr. Vleit for the affirmative said that it has never been and that it never will be our policy to grant independence to people in rebellion. The commercial argument was taken up at some length. Our trade relations with the Philippines are by nature reciprocal. With Guam and Hawaii they form a link in the trade route to the East and afford us a naval base for operations in the Orient. But we must have complete control. Teutonic peoples are by a natural law, governors. We have a duty to perform. The interdependence not the independence of nations is the watchword of our time.

Miss Van Orden for the negative showed, at some length, reasons why the Philippines would not be a permanent commercial advantage to the United States. England's trade with India has been profitable only because of the unjust commercial policy of the English nation. England's trade with Canada has fallen off thirty per cent. in forty years. Holland has had a like experience with her colonies thus showing that trade only under certain given conditions follows the flag. The Philippines have cost more in blood and money than they can repay for countless years to come and besides the European nations are getting and by natural trade relations will continue to get most of the Philippine trade. The continuation of our present policy means the taxing of all for the commercial advantage of the trusts.

Mr. J. A. Munson the last affirmative speaker set forth the benefits accruing to the Filipinos from control by the United States. In the three years of our occupancy, we have brought into these islands four thousand school teachers, have established courts of justice, abolished the former iniquitous system of tax-

## OUR ORATOR.

We present this week a cut of Mr. Wermuth, who will represent M. A. C. at the State oratorical contest. Mr. Wermuth's home is Newark, Mich. He entered M. A. C. in '98 with the class of 1902, having prepared one year in the Ithaca



MR. BURT WERMUTH, '02

high school. He is a member of the Columbian Literary Society and has on several occasions represented his society with success in inter society contests.

ation substituting a just system in its place, and have improved the sanitary and general conditions of the country. The people are not homogeneous like the Japanese and independence would not benefit them. Tropic peoples have never made a success of self-government. The history of Venezuela is one of numerous revolutions. Our policy in the archipelago has had a parallel, for California was under military rule from 1846 to 1850.

Mr. Millar, in the closing speech for the negative, ridiculed the idea that the Philippines do not desire independence. Their whole history tells of their struggle for liberty. Teutonic peoples have never successfully governed alien races. We cannot force our government on an unwilling people. The United States has acquired territory in three ways, by gift, by conquest, and by purchase. To say that we acquired the islands by gift or conquest is absurd. If we say that we acquired them by purchase, it should hold true that the Filipinos gave their consent to the purchase. Our title is not clear. We should hold them temporarily and give them independence as we did Cuba.

Following the first speeches of ten minutes each, the six speakers had each five minutes for rebuttal. Ypsilanti proved the more effective and received the unanimous decision of the judges, who were Hon. Levi J. Barbour of Detroit, President Gurney of Hillsdale and Mr. H. F. Jacobs of U. of M. Judge J. B. Moore was the presiding officer of the evening. At the beginning and end of the debate music was furnished by the M. A. C. band.

## ALUMNI.

'63. E. M. Preston of Nevada City, California was the recipient of a valuable jewel a short time ago. Mr. Preston is past Grand Master of Masons of California and the honor was shown him by his own Nevada City lodge because of his services to the Masonic order in the past.

'83. Secretary Bird will build a residence this coming summer, on the first lot east of Mr. M. L. Dean's.

'86. *The Electrical World and Engineer* for Apr. 12 has an article descriptive of the work done in electrical engineering in Lewis Institute, Chicago, over which Professor Woodworth has charge. The article states that "the work done at Lewis Institute in this department is rapidly assuming an important place among that done by the leading technical schools of the country."

'88. Louis A. Bregger in a recent number of the *Farmer's Voice* and *National Rural*, has a very good article on Farm Home Decorations.

'88. A. B. Cordley, of Oregon Agricultural College, has put out a valuable bulletin on the Codling Moth and Late Spraying in Oregon.

'90. K. Shoshima, who was a student at M. A. C. several years and who received his M. S. degree from M. A. C. in '90, is now State Entomologist in the Imperial Agricultural Experiment Station, Kennanoto, Japan.

'94, '95 *sp.* On the evening of April 23, William C. McLean was married to Miss Marguerite Scranton of Lansing. After the ceremony Mr. and Mrs. McLean went to Cleveland for their honeymoon. Their future home will be in Jackson.

'94m. In *The Electrical World and Engineer* for Apr. 12 appears a long article, "Grounding of High Potential Systems," by John D. Nies. In the same paper an editorial discusses at some length the subject matter with which Mr. Nies deals.

'96. W. J. McGee, who is with the New York Filtration Co., Chicago, has full charge of the chemical laboratory. His work consists mainly in analyzing water for steam boilers.

'96. Robt. B. Buck, the hustling circulating manager of the *Mail and Breeze*, one of the largest newspapers in Kansas, says it is surprising how many M. A. C. men one runs across in traveling through that state.

'97. Dwight Sanderson, entomologist for the Delaware Experiment Station, has sent out the announcement of his first edition of a recent book, "Insects Injurious to Staple Crops." The book is published by John Wiley & Sons, New York.

(Continued on second page.)



## THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE  
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MICHIGAN STATE AGRICULTURAL COLLEGE

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TUESDAY, APRIL 29, 1902.

## ALUMNI.

(Continued from first page.)

'98. Born to Mr. and Mrs. C. F. Herrmann of Lansing on April 21, a daughter.

'98. H. C. Skeels has changed his address from the Chicago Carnation Co. to the Forest of Arden, Joliet, Ill.

'99m. R. M. Agens is now with the Detroit Plant of the American Bridge Co. His address is 524 Baker st.

'00. A. Knechtel, forester for the State of New York has been engaged for the past two weeks in superintending the planting of spruce and pine trees on a large forest area near Harrietstown, N. Y. which area was burned over in 1899. A half million trees are thus being planted, the venture being of an experimental nature.

'01. V. M. Shoemith writes from the Kansas Agricultural College, Manhattan, Kas., that he is enjoying his work, but that he finds western methods somewhat different from those of Michigan.

'01. R. S. Northrop writes from Fargo, N. D., that he likes his work there. He expects to be home during the summer vacation.

'01. In a lengthy letter to J. J. Ferguson received a few days ago, Mr. J. H. Skinner writes a very cheerful account of his life and prospects on a Montana ranch of thirty thousand acres stocked with 12,000 sheep. Mr. Skinner is in charge of the Alfalfa work on the ranch. He writes that his cook and housekeeper is his brother B. W. who was a Special at the College a year ago. It is evident Montana is prospering. Mr. Skinner's address is Lavina.

'03 sp. m. A letter was recently received from Jas. W. Waber who is now "transit man" in a surveying squad on the A. & St. F. R. R. His present address is, Belia, New Mexico.

COMMENCEMENT  
SPEAKERS.

The College is very fortunate in securing men of exceptional prominence for commencement exercises.

The Baccalaureate sermon will be given by the Rev. Dr. Camden M. Coburn, pastor of the St. James Episcopal Church, Chicago, and the commencement address by Dr. James MacAlister, president of Drexel Institute, Philadelphia. Dr. MacAlister is an educator of national reputation. He was superintendent of the Milwaukee schools from '74 to '81 and regent of Wisconsin normal schools from '81 to '83. He was then called to Drexel Institute as its first superintendent. For the last eleven years, he has been at the head of Drexel Institute. In this position he has been a very prominent factor in the development of industrial education in this country.

## THE BELOIT GAME.

Beloit and M. A. C. slipped around in the mud for seven innings Friday, and when the game was called at the end of the seventh, the score stood Beloit 11, M. A. C. 3. Beloit came first to bat and started things with a rush, but only one run came in the first inning. Beloit got one in the second and five in the third and four in the sixth, with two men out. Though M. A. C. had men on bases in nearly every inning, the circuit could not be made till the fifth when two runs came in. One run was added in the seventh. Taken all in all, the game was a great improvement over the U. of M. contest. Case twirled a good game, and had his support been better at times the score would have been cut down. The summary follows:

M. A. C.	R.	H.	P.	A.	E.
McKenna, 2b . . . . .	2	1	0	2	1
Tower, c . . . . .	0	2	5	0	1
Case, p . . . . .	0	1	0	3	0
Rasmussen, 1b . . . . .	0	1	8	0	1
Gunnison, c. f. . . . .	0	1	0	0	1
Henderson, s. s. . . . .	0	1	0	2	1
Frazer, J. f. . . . .	0	0	5	0	1
Frazer, B., 3b . . . . .	0	1	1	0	1
Anderson, r. f. . . . .	1	1	1	1	3
Priest, r. f. . . . .	0	0	0	1	1
Totals . . . . .	3	9	*20	9	11

\*Adkins out for interfering with ball.

BELOIT.	R.	H.	P.	A.	E.
Slater 2b . . . . .	1	3	2	1	0
Brown, s. s. . . . .	1	0	0	1	0
A. Merrill, c. . . . .	1	0	12	0	0
Adkins, p. . . . .	0	1	0	1	0
E. Merrill, l. f. . . . .	2	2	1	1	0
Cronkhite, 1b . . . . .	2	2	2	0	2
Loranger, 3b . . . . .	3	1	1	0	0
Mills, c. f. . . . .	1	0	2	0	0
Calland, r. f. . . . .	0	1	1	0	0
Totals . . . . .	11	10	21	4	2

M. A. C. . . . . 0 0 0 0 2 0 1  
Beloit . . . . . 1 1 5 0 4 0  
Bases on balls by Case 1, by Case 3.  
Hit by pitched ball by Adkins 1, by Case 2.  
Struck out by Adkins 10, by Case 2. Two base hit, Rasmussen. Home run, Cronkhite. Time of game, 1 hr. 55 min. Umpire, Close.

## NORMAL 12, M. A. C. 10.

Yesterday's game with the Normal was lost when it seemed to be won. By a combination of hits and errors M. A. C. got seven runs over the plate in the second inning. This seemed a safe lead but Ypsilanti tied the score in the ninth by getting two runs. Two more were added in the tenth while M. A. C. was blanked and the final score stood

Ypsilanti 12, M. A. C. 10. Case and Novah both pitched good ball.

Ypsilanti	R.	H.	P.	A.	E.
Dennis, c . . . . .	3	2	5	2	2
Hyames, s. s. . . . .	3	2	0	1	0
Lathan, l. f. . . . .	0	0	1	0	0
Waldron, 2 b. . . . .	1	1	4	4	0
Smith, r. f. . . . .	3	3	1	0	0
Ireland, 3 b. . . . .	1	2	2	0	2
Shigley, c. f. . . . .	1	4	1	0	0
Novah, p. s. s. . . . .	0	1	0	7	1
Whitmoyer, 1 b. . . . .	0	0	16	0	1
Totals . . . . .	12	15	30	14	6

M. A. C.	R.	H.	P.	A.	E.
McKenna, r. f. . . . .	1	1	0	0	0
Tower, c . . . . .	0	0	8	2	0
Gunnison, c. f. . . . .	2	1	2	0	1
Case, p . . . . .	2	4	0	4	0
B. Frazer, 3 b. . . . .	1	1	3	3	0
Millar, 2 b. . . . .	2	3	5	2	0
Rasmussen, 1 b. . . . .	1	0	10	0	0
Henderson, s. s. . . . .	1	1	1	3	4
J. Frazer, l. f. . . . .	0	1	1	1	0
Totals . . . . .	10	12	30	15	5

Normal 2 0 0 1 2 2 0 1 2 2

M. A. C. 0 7 1 0 0 0 2 0 0 0

Two-base hits Smith, Shigley, Case (2). Three-base hits, Ireland, Millar. Bases on balls by Case 4. Struck out by Case 7, by Novah 4. Hit by pitched ball by Case 2. Double play Henderson to Millar to Rasmussen. Left on bases M. A. C. 2, Normal 7. Umpire, Fitzgibbons.

## THE M. A. C. BAND.

There is given below the members of the M. A. C. Band as organized at the present time. The M. A. C. band, though belonging to the military department, is often called upon to furnish music for College entertainments and it is thought that a brief mention of the organization will not be out of place.

The present band, is the largest in membership and probably the best in several years. The new instruments purchased last fall are a great addition and most of the members, before coming to M. A. C. have played in the leading bands of the State. J. H. Prost, musical director, deserves much credit for his work, being a fine musician besides an excellent director. The present twenty-five members have been together since last September, having practiced three times a week all winter, consequently the organization is in excellent shape. Besides the members as given below, there are several who are in athletics and three who have quit school.

## THE MEMBERS.

Drum Major — Sergeant H. R. Kingsley, '03m.  
Musical Director — J. H. Prost, '04.

## TROMBONES.

First — H. French, '05m, H. B. Smith, '06m.  
Second — T. G. Phillips, '02.  
Third — G. O. Baldwin, '05.  
Valve — C. E. Johnson, '05m.

## BASS.

E. Flat — S. W. McClure, '03m.  
B. Flat — L. M. Kingsley, '05m.  
Baritone — I. J. VanSiver, '03m.  
Altos — W. E. Johnson, '06m, P. B. Pierce, '04m, G. S. Pike, '06m, W. M. Johnson, '05m, G. G. Robbins, '04m.

## CORNETS.

Solos — R. J. West, '05, F. Holly, '06m.  
First — G. C. Sevey, '03, W. H. Agens, '05.  
Second — F. H. Nickle, '03m, H. N. Hornbeck, '04.  
Clarinet — J. H. Prost, '04, W. F. Jordan, '05m.  
Piccolo — E. B. Downer, '05.

## DRUMS.

Bass — W. R. Orwick, '05m.  
Snare — R. A. Benedict, '05.

SPARE THE SPRING  
FLOWERS.

It seems to be the natural tendency for mankind to wish to destroy plants and animals. Boys take delight in shooting any live animal to be found at any time, excepting domestic animals. The older men delight in cleaning out shrubs and trees, possibly excepting a few at equal distances along the line of a fence.

At this time of the year especially do the students at M. A. C. bring in great bundles of hepatica, spring beauty, violets, addertongues and others. They usually wilt before they arrive at the students room and are worth little or nothing as ornaments. Some of the plants are dug out by the roots, most of them die outright after the tops are picked off.

I wish I could make every student feel that the flowers never look so well as in the place where they grow. In the vicinity of all colleges of some age and size wild spring flowers sooner or later become rare or extinct. At Harvard University, unless grown in the gardens, they have to send out thirty to seventy-five miles to secure a supply for class-room use. I should be glad if a society could be formed to help prevent the destruction of our native herbaceous plants. Think of it.

W. J. B.

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# ABOUT THE CAMPUS.

Dorr Skeels, ex '03, spent Sunday at M. A. C.

The new five-year course has been adopted.

The student bath house is to be built this year.

E. E. Baldwin, '06m, has been obliged to give up his school work this term.

Instructor Reed had a slight touch of tonsillitis the fore part of last week.

A training table for the track team was started yesterday morning in Club E.

Apple trees cultivated by the students have recently been sent out over the State for experiment purposes.

The sugar beet class has detected the somewhat rare element of lithium in the juice of some beets that were analyzed.

B. T. Halstead, with '96, visited on the grounds last week. He was called to Lansing by a law case before the supreme court. His home is in Petoskey.

The Natural History Society were entertained last week by a talk on the migration of birds by Professor Pettit and a talk on plankton by Instructor Meyers.

The members of the Columbian Literary Society entertained their lady friends Saturday evening. Dancing and games made the hours pass quickly. Owing to the sudden illness of Mr. Gunson, Mr. M. Craig very kindly chaperoned the party.

The lawn mowers were started yesterday morning.

Professor Babcock's little girl was ill with influenza last week.

Joel G. Palmer, '04, was in the hospital last week with a case of chicken pox.

E. A. Wilcox, '05, was called home last week by the serious illness of his father.

There are six hundred and eighty-eight students enrolled this year in all departments.

Clinton D. Butterfield came from Chicago last week for a short visit with his parents.

A room in the north end of the attic of the Botanical Laboratory is being fitted up for the temporary use of the department.

Miss Zaidee Vosper, with '02, stopped off at M. A. C. last week while on her way to her school work in the University.

Mrs. Kedzie entertained one evening last week at whist. After the playing, hot waffles and maple syrup were the order of the day.

The father of Prof. W. O. and U. P. Hedrick has bought a lot east of the orchard and will build a house this summer for the purpose of permanent residence at the College.

The Horticultural department has just received one hundred and fifty varieties of strawberry plants and forty varieties of peach trees, which will be planted for experiment purposes.

The girls in the women's building had house cleaning lessons last week.

Mr. Chas. B. Rose, '03m, spent Saturday and Sunday at his home.

Lyman Carrier, '02, was in the hospital last week, being threatened with lung fever.

Albert Strong, with '03m, is now in St. Paul, Minn. His address is 479 Clinton Ave.

Covell, '02, goes Thursday to Chicago to take his physical examination for West Point.

Don H. Stacks, '04, has been appointed to West Point and has passed all examinations.

There is some talk as to the advisability of running an eleven o'clock car to the College.

Harvey Hahn, ex '03, is attending school at Big Rapids and is the best all around athlete in the institution. He will enter M. A. C. next fall.

Plans are being completed whereby A. A. and F. B. Piatt are to furnish electric light for residents of Oakwood and surrounding territory.

Mr. L. F. Clark, '04, who has been quarantined at home with his father and two brothers who had the small pox, returned to College Friday.

Mr. Floyd W. Robison, assistant chemist for the Experiment Station, was on a tour last week through the western part of the State collecting commercial fertilizers for use in the preparation of the fertilizer bulletin to be put out soon.

Mr. A. C. Haite of Springport visited with College friends last week.

Instructor Swift spent Saturday and Sunday in Saranac with Mrs. Swift.

Prof. U. P. Hedrick's little girl was dangerously sick last week with bronchitis but is better now.

The senior electives in Physics are now experimenting in advanced work in the subject of light.

Prof. and Mrs. Burke of Albion visited with Prof. W. O. Hedricks and family one day last week.

Charles E. Collier of the beet sugar class of '01, is taking special work in beet sugar this term. May 1, he will be with the Wallaceburg Beet Sugar Co.

Last week Prof. Taft planted a large number of trees along the drives in Oakwood. Poplars, bass-woods, elm and maples and some spruce were planted.

The military department will award this week a silver medal to the most capable first sergeant in competitive drills. A gold medal will be awarded to the most efficient captain in competitive company drills.

The great number of evergreens and other trees on the campus at M. A. C. have a very noticeable effect in checking cold winds in winter. One has only to ride about the neighborhood or pass along the high land in the lane on the other side of the river to discover this interesting part.

(Continued on page four.)

## NORTON'S HARDWARE

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# ABOUT THE CAMPUS.

(Continued from page three)

Prof. J. F. Reigart, Superintendent of the School of Ethical Culture, New York City, visited Pres. and Mrs. Snyder for a few days during the past week.

Friday evening, one of the rooms in Williams Hall was blackened by fire. The fire started from a gasoline stove. Considerable damage was done to clothing and fixtures.

The Hesperian Society with a number of friends enjoyed a spring party in the armory Saturday evening. Prof. and Mrs. U. P. Hedrick and Prof. and Mrs. W. S. Holdsworth were chaperones.

The members of the Union Lit Society entertained their young lady friends last Saturday night with a sugar supper. During the supper articles appropriate to the occasion were rendered by several of the members, after which dancing was indulged in until ten o'clock. Music was rendered by Messrs. Stringer and West.

The newly elected members of the M. A. C. Entertainment Club, consisting of a representative from each literary society, met in the President's office last Wednesday evening in unison with the retiring members and elected the following officers for next year: President, Mr. Burr T. Hesse; vice president, Mr. Edward D. Allis; treasurer, Mr. E. Balbach; secretary, Miss Edna V. Smith; business manager, Mr. H. Ray Kingsley.

At the State Board meeting last week, the bids for tunnels were opened and rejected. The consideration of plans for the power plant were laid on the table. Prof. Weil and Architect Bowd were instructed to prepare plans for an engineering building, including department of physics. It was voted that \$200 be appropriated from the interest accruing from student deposits and from exchanges toward the construction of a grand stand for athletic field, provided the students raise an equal amount for the same purpose.

Prayer meeting Thursday evening was led by H. N. Hornbeck. Chapel services Sunday morning were led by Rev. Mr. Fry of the Central Methodist church, Lansing. Text, 2 Corinthians 4, 16. "But though our outward man perish, yet the inward man is renewed from day to day." Mr. Fry showed that the spiritual nature like the physical, requires at least three conditions for proper development, viz: A healthy condition, plenty of nutritious food and an abundance of proper exercise; and that as the physical gymnasium is a valuable factor in the development of the physical being even more so is the spiritual gymnasium a vitally necessary factor in soul development. All the necessary conditions for the highest soul development are found in true service to Jesus Christ.

The union meeting of the Y. W. and Y. M. C. A. was conducted by Burt Wermuth. The hour was spent in reporting the Lake Geneva Conventions by the delegates, Miss Hettie Wright representing the Y. W. C. A. and Messrs. D. S. Bullock and George White representing the Y. M. C. A. To be able to attend such a convention is surely a rare opportunity, and if the chance to attend is offered to any young man

or woman they ought, by all means, to seriously consider the question before deciding not to go, for it will mean far more in the spiritual lives of those who attend, than any one can estimate.

It means to come in contact with the most earnest, live Christian young men and women in the country.

H. N. H.

Some interesting problems are being investigated by the seniors in Bacteriology. Messrs. Phillips and Wermuth have isolated several different kinds of bacteria from decaying wood. Cultures of these germs have been started in solutions of nitrogen in different combinations, and after allowing them to grow for a considerable length of time, chemical tests will be applied to determine the changes caused by the bacteria upon the nitrogen compounds.

Mr. Wright is attempting to determine whether or not bone meal is rendered more soluble by the action of bacteria. One section of the class is investigating the changes taking place in the soil by the agency of bacteria; while the young ladies are studying the role of micro-organisms in the making of bread, the fermentation of vinegar, water, milk, and in the canning of fruit.

Mr. Young is investigating the action of the yeast plant upon twelve different kinds of sugars.

Messrs. Dail and Dunford have designed and had manufactured an ingenious piece of apparatus for maintaining in a state of purity, a lactic acid starter for use in dairies and creameries. The gentlemen have christened their apparatus "The Eureka Pure Starter Perpetuator."

## THE COMING OPERA.

The M. A. C. chorus will present "Pinafore, or The Lass that Loved a Sailor," Friday evening, May 23, in the College Armory. The play will be given in costume, with recitatives omitted.

The opening scene of "Pinafore" shows the sailors on deck. Buttercup, "a plump and pleasing person," enters and offers her wares for sale. Sir Joseph Porter, K. C. B., and "his sisters and his cousins and his aunts" came on board and Sir Joseph falls in love with Josephine, the Captain's daughter. Ralph, a common sailor, is also in love with her. Ralph and Josephine plan an elopement but are foiled, whereupon it transpires that Ralph is in reality of noble birth, while the Captain is only a common sailor. Josephine then marries Ralph, the Captain finds himself in love with Buttercup and Sir Joseph falls back on his Cousin Hebe.

Sir Joseph Porter, K. C. B. Geo. Humphrey  
Captain Corcoran . . . . . Glen Sevey  
Ralph . . . . . F. D. Stevens  
Dick Deadeye . . . . . G. T. Hesse  
Boatswain . . . . . B. R. Forbes  
Boatswain's Mate . . . . . E. Barclay  
Josephine . . . . . Hannah Bach  
Buttercup . . . . . Harriet Toan  
Cousin Hebe . . . . . Edna Smith

Pres. Draper, of the University of Illinois, who was thrown from his carriage a short while ago, is slowly recovering from the injury received at that time.

The State Universities of North Dakota, South Dakota, Montana, Wyoming, and Colorado are trying to form a debating league.

## THE JEWETT & KNAPP STORE

# Lansing's Low Priced Reliable Store

Every Department full of New Spring and Summer Goods.

New Dress Goods, Silks, Laces, Gloves, Hosiery, Underwear, Silk and Cotton Shirt Waists, Muslin Underwear, Dress and Walking Skirts, Tailor Made Suits, and Jackets.

We also carry a Complete Stock of Lace Curtains and Draperies.

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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.

### BARBERS.

J. H. WOOD—Barber, 106 Michigan Avenue E. College work especially solicited.

M. A. C. BARBER SHOP, Room 44 Williams Hall. E. E. Reynolds, Prop't.

### BOOKS AND STATIONERY.

A. M. EMERY, 116 Wash. Ave. N. Books, Fine Stationery, Engraved Calling Cards, Fountain Pens, Pictures, Frames. New store. New Stock.

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ONLY the best candies at the "Sugar Bowl," Cor. Washington Ave. and Allegan.

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

### CROCKERY AND GLASSWARE.

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

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R. W. MORSE, D. D. S. Hollister Block, Room 517.

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DONSERAUX'S DEPARTMENT STORE is the place to trade. You can get a warm lunch in our cafe for 10c. See ad.

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### ELECTRICAL SUPPLIES.

CAPITOL ELECTRIC CO. Electrical Supplies. 321 Wash. Ave., S.

### ALL MEATS . . . .

May look alike to you, but there is a very great difference in the quality we handle and that sold by some other markets. We handle none but the very best. Like the pudding, the proof of good meats is in the eating. A trial will convince you that you ought to trade with us.

We make daily trips to the College. BOTH PHONES. Careful attention given to 'phone orders.

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JACOB STAHL & SON.—Wholesale and Retail Hardware and House Furnishings. 211 and 213 Washington Avenue North.

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

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MRS. O. T. CASE—Manicure and Hairdressing Parlors. Masquerade wigs for rent. Switches made of cut hair or combings. New 'phone 118. 222 1/2 Washington Avenue S., up stairs.

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JOHN HERRMANN'S SONS. 218 Washington Avenue N.

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THE POST MUSIC CO. Pianos, Organs and everything in the line of music. 219 Washington Ave. N.

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JOSEPH FOSTER, M. D.—Eye, Ear, Nose and Throat. Hours 9 to 12 A. M. City National Bank Building, Lansing.

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A. D. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 419 Seymour St.

J. W. HAGADORN, M. D.—Office hours, 11 to 12 A. M., 2 to 4 and 7 to 8 P. M. Office at 212 Washington Avenue S.; home 219 Capitol Ave.

P. A. TYLER, M. D. Physician and Surgeon. Calls attended night or day. Office 121 Washington Ave. N. New Phone No. 160.

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