

The M. A. C. Record.

VOL. 6.

LANSING, MICHIGAN, TUESDAY, APRIL 16, 1901.

No. 29

Horticultural Department.

A new plan for thesis work is to be tried the coming term by the juniors in horticulture. The class will give its attention to one subject, a somewhat general one, parts of which will be assigned to various members. The subject is "The Pollination of the Apple and the Pear." Prof. Hedrick says, "The object in view is not to make new discoveries, but rather to receive practice in careful work, and a thorough knowledge of the various phases of the subject." He thinks, however, because of the superior advantages for such work and the scale upon which it will be carried on, some valuable new facts will be discovered. Twelve students will devote about 100 hrs. each to the work.

The main problem is to determine which varieties of the fruits are self-fertile and which are self-sterile. There are also a number of minor questions as: How many times is a flower visited by insects? Is the pollen from these fruits transported by wind? What insects carry pollen? How long do flowers remain in bloom? What immediate effect has pollination on the flower? At what hours are insects most abundant? Are there more insects in sheltered situations? Is failure to set fruit due to mechanical or to physiological causes? Do insects prefer the pear to the apple and do they prefer certain varieties of these fruits? What per cent of blossoms set fruit? Can varieties be identified through the character of their flowers? What species of insects are found working on the two fruits? etc.

We feel sure that the results of these theses will be of some benefit to the horticulture world.

The Bachelors' Reception.

There are still a few bachelors among us. This was very clearly shown Saturday evening when they entertained in the College armory. The hosts and their guests numbered about one hundred. Through the kindness of Mr. Gunson, the decoration committee were enabled to secure some very pleasing effects by the liberal use of palms and potted plants. A touch of novelty was added by the display of colors, pennants and cushions, mementoes of the men's various home colleges.

Music was furnished during the evening by Bristol's orchestra, and was of the kind which bachelors appreciate, every one of the eighteen numbers having been personally selected.

The programs were specially designed for the occasion. The front cover displayed "Bachelor's Hall" with the legend "The pen is mightier than the sword": The back bore the simple inscription, "The Lord Loveth a Cheerful Bachelor."

Those bachelors whom age or physical infirmity rendered unable to respond to the seductive strains of the *Blue and the Gray* found solid comfort in cosy corners and easy resting places thoughtfully provided.

The enviable reputation of the College caterer was enhanced by

the admirable manner in which refreshments were served by lady students. The attractive alcove where they dispensed creature comforts was the most appreciated nook in the building.

Promptly at 11:30 the strains of *auf Wiedersehen* brought to a close the initial effort of the bachelors, the guests leaving with the freely expressed hope that there might always be a remnant left to repeat it.

To all our friends who in so many ways contributed to the making of our reception such a decided success, we wish to tender our hearty thanks.

THE BACHELORS.

New Books.

Several good sized volumes packed with fresh oratorical models have been placed upon the market within the last few years by the promoters of what is known as the modern oratory. It used to be thought that no high school pupil, and certainly no college student, could profitably study such models as did not come under the authorship of Webster, Burke, Cicero, Demosthenes, and the like: whereas, the judgment of today tends very strongly towards the study of the more modern orators, to the exclusion of all others. In pursuance of this tendency, no doubt, Prof. Edwin Dubois Shurter, Ph. B. of the University of Texas, has recently got out a book entitled, *The Modern Speaker*, which, on the score of number and variety of illustrative examples, taken from representative English and American writers and speakers, is perhaps the best of its kind to be had anywhere. From the models which Prof. Shurter has chosen, it is evident that he is a practical teacher and knows that the college student, at least, has literally worn out the oratory of Webster and of Burke; and he shows excellent judgment in choosing models for his book largely from other, and for the most part, modern orators. Student and teacher alike will welcome *The Modern Speaker*. E. S. K.

Sunday Morning Services.

The Sunday morning services were conducted by Rev. Ernest Bourner Allen. He selected for his text, Hebrews 12:1, 2; the substance of which is: "Let us lay aside every weight, and the sin which doth so easily beset us, and let us run with patience the race that is set before us." The substance of his talk was: "The weights we are to lay aside are to temptations with which we have to contend. In our college life we are exposed to temptations more of a special nature, namely: neglecting our studies for the sake of athletics, which in after years does not help us to fight the battles of the world; neglecting our studies when we hear a 'tin horn' on the campus or anything that tends to lead us from our studies." A. F.

Y. M. C. A.

At the last business meeting of the Y. M. C. A. April 11, the following men were appointed as

chairmen of the standing committees for the year beginning with this term: Bible study, B. Wermuth; devotional, B. T. Hesse; missionary, W. R. Wright; social, J. A. Dunford; finance, W. J. Geib; intercollegiate, Marcus Stevens.

It was decided to get out the Y. M. C. A. Handbook this term and save the time usually spent in getting it out in the fall for more aggressive work among the new students.

The total attendance in Bible classes Sunday—the first class meeting of the term—was thirty-five. While this is an encouraging improvement over the attendance for the same time in previous years, it is a much smaller number than the enrollment for last fall should warrant. Let us not listen to the call of the "tin horns" so to neglect our Bible study, weakening our spiritual growth and encouraging others by our example to neglect their Bible study, but let us push the work to the end of the year.

The union meeting of the Y. M. C. A. and Y. W. C. A. was led by Mr. Geib. The subject for the evening was: "What we owe to Christ." AUGUST FREY.

Communicated.

TO THE EDITOR:—

Jackson must be a Mecca of M. A. C. graduates. In the space of five minutes I met in front of the office of John I. Breck, Judge of Probate, J. T. Hammond, who was here at the opening of the College in 1857, and was one of the group of young men who attended the first examination given by Professor Tracy in arithmetic, probably the first examination given to any students; next came R. T. McNaughton, '78, a real estate and insurance man, who had much to say about the good times he had at the College and the hard work he did; Mr. E. Banker, a prominent lawyer in Jackson joined the group, and reminded us that he was an assistant in chemistry at M. A. C. in 1857 and 1858. These men told me that I had not begun to see the best part of the resident alumni in and about Jackson.

Yours respectfully, C. D. SMITH.
AGRICULTURAL COLLEGE, MICH.,
April 11, '01.

J. R. Thompson '00m, writing to Prof. Weil, says:

"I am sending to you today a small photograph of an up-to-date passenger locomotive which I hope will be of interest to you. This engine, recently out of the shop is the design of Mr. W. H. Marshall, Supt. Motive Power for the L. S. & M. S., and represents what is needed to take care of the fast and heavy passenger traffic on that road. The design is something new in regard to wheel arrangement as well as the combination of such features as 3,343 sq. ft. of heating surface, 48½ sq. ft. of grate area, 19 ft. tubes, 20½x28 in. cylinders, piston valves, a pony leading truck, radial trailers, and 6 coupled driving wheels 80 in. in diameter. * * * With piston valves a direct valve motion is necessary, as the steam is taken from the inside. * * *

"This engine, I think, is the handsomest they have built since I have been here. Its general outline is graceful and the parts are well proportioned. * * *

"As for myself, I am getting along nicely. * * * I am hoping to pay the College a visit before school closes in June."

747 Washington ave.,
Dunkirk, N. Y.

April 1, 1901.

Mechanical Department Notes.

Mr. E. J. Gunnison is ill at his home in De Witt.

A good many patterns are in course of construction for the new engine lathe.

Mr. L. Pierce has sufficiently recovered from his recent illness to be about the shops again.

A fine photograph of an L. S. & M. S. engine built at the Brooks Locomotive Works, is on exhibition at the laboratory. The photograph was presented to the department by Mr. J. R. Thompson, '00m.

The department has recently received a 12 K. W. Edison dynamo for temporary use in connection with thesis. The machine will be used by Messrs. Wells and Littell in making tests upon a fan blower.

Messrs. Bailey and Lickly have placed in position at the feed barn an anemometer for measuring wind-velocities in connection with their thesis work; it is elevated something like forty feet about the ridge poles of the barn. The instrument was loaned the College by the United States Weather Bureau at Washington.

Over a hundred lockers are in course of construction in the workshop to hold finished and unfinished stock and incidentals belonging to students. Practically all the work is being done by students. These lockers will simplify matters considerably in starting work at the beginning of the hour, as under the present arrangement students must line-up and get their stock from the stock-room.

Faculty Party.

Last Saturday evening Professor and Mrs. Vedder entertained a goodly number of the faculty, with one of those delightful gatherings for which they are already so famous among us. No one whose good fortune it is to have enjoyed the hospitality of this home will ever forget the happy informal cordiality with which guests are ever received in it. Whist was the game of the evening and top score (of fun) was won by Prof. Smith and Mrs. Vedder. Elaborate refreshments were served at the long table in the dining-room, Prof. W. O. Hedrick occupying the seat of honor. After the last of many courses had disappeared, toasts and witticisms were indulged in until a late hour. The party broke up just before midnight, and all went home declaring they had spent another most happy evening at the Vedders'. E. M. K.

THE M. A. C. RECORD.

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For various reasons THE M. A. C. RECORD is occasionally sent to those who have not subscribed for the paper. Such persons need have no hesitation about taking the paper from the postoffice, for no charge will be made for it. The only way, however, to secure THE RECORD regularly is to subscribe.

Record Staff.

HOWARD EDWARDS.
VICTOR E. BROWN.

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Miss Clara Dean, of the Themian Society.
H. E. Young, of the Union Literary Society.
George Severance, of the Y. M. C. A.

Communications and other matter pertaining to the contents of the RECORD should be sent to Howard Edwards, Editor of the RECORD.

The lecture course of the year, which closed in such a blaze of glory with George Kennan's "Mountains and Mountaineers of the Caucasus," should by all means be paralleled next year, and to that end work should be begun now. We would suggest that a larger amount of fine music be introduced in the next course.

No patriotic American should fail to read the story of the disbanding of the Union and Confederate armies as told in the last two numbers of McClure's Magazine. The two articles are complementary. They form the common climax of a story of grim resoluteness and unswerving devotion to duty on both sides, of splendid valor in victory met by unyielding fortitude in defeat, on a scale and of a kind that the world has not paralleled in all its history. Both parts are the common heritage of a united country—a heritage more precious than all the wealth of all our busy cities, a heritage from the inventory of which only a traitor to our common flag would blot out a word either of the glorious courage and achievement of the North, or the superb fortitude and devotion of the South.

Two weeks from next Friday night (May 3) will occur in the Armory of the College the annual inter-collegiate oratorical contest among representatives of the eight colleges in the Michigan Oratorical League, viz.: Adrian, Albion, Hillsdale, Hope, Kalamazoo, Michigan Agricultural, Michigan Normal, and Olivet. We hope that every student and every member of the College community will set aside that date to the one purpose of attendance on the contest, and will allow nothing to interfere with such attendance. Let our orator have the strong support of a large and enthusiastic audience. Nothing would do more for the prestige of our College than the winning of that medal, and to that end we are bending every effort. Give us your hearty and loyal aid.

HOWARD EDWARDS.

George Kennan's Lecture.

Everyone heartily enjoyed the last lecture of the course for the year, delivered on April 10 by George Kennan. Mr. Kennan was announced to speak on "The Great Siberian Road;" but the lecture actually delivered was on "The Mountains and Mountaineers of the Caucasus." After the lecture was finished no one seemed to regret that the change had been made. For two hours the audience was charmed with a panoramic succession of scenes, characters, costumes, games, ceremonies and social customs, that for variety, brilliancy and intensity has seldom been surpassed.

Mr. Kennan is a man, one would judge, of about fifty years of age; somewhat bald, of medium size and not especially athletic in build. His voice is rather harsh, with much of that sharp crispness we find in the trained military man. He speaks easily and fluently, scarcely ever pausing for a word, and never at a loss for an easy and natural succession of ideas. He seemed to speak entirely without labor to himself and that largely helped to relieve the audience of any conscious sense of fatigue; and this, too, in spite of a certain monotony of sentence inflection in the narrative and descriptive parts. In the dialogue parts a considerable degree of animation and dramatic vigor were introduced.

Mr. Kennan began by giving a rapid summary of the ancestry of the inhabitants of the Caucasus region. All the various great migratory movements that have marked the history of the European peoples have left traces among the inhabitants of this region—stragglers from the main bodies who for one reason or another have chosen or been compelled to remain among these mountain fastnesses, and have formed semi-independent tribes. This highly mixed ancestry has developed into a rude, vigorous, hardy, daring mountaineer race, Mohammedan in religion, numbering about one million and a half, and so passionately devoted to freedom that they have never been conquered until the Russians in 1859, after a series of bloody fights and campaigning more difficult and exhausting than any previously undertaken by this enterprising people, brought them finally into a nominal subjection to the Czar.

Mr. Kennan's attention was first drawn to this country by the songs, the picturesque costumes and the stories of Caucasian valor everywhere prevalent in the cities of Russia shortly after the end of the war of 1859. He at once determined to explore the country. But this was much more easy on the map than when he faced the actual situation after arriving at Timour Tan Surah on the border of the Caucasus region. Here everyone went armed. There was little or no law. The dialects of the country were many and difficult and totally foreign to the Russian language which he expected to use. Guides and transportation were not to be had at any price, and the difficult bridle paths wound through dangerous mountain passes and gorges that were impassable to any other than the experienced mountaineer.

While wandering disconsolately around the desolate little village waiting for something to happen that would favor his undertaking, Mr. Kennan was one day informed that a Georgian prince who was

making the journey over the mountain range, had arrived, and would at once set forward on his journey. After much insistence on the part of Mr. Kennan, and many objections from the prince—objections based on the inexperience and timidity of the average traveler, the real dangers of the way, and the lowlander's lack of endurance among the high altitudes of the Caucasus range, Mr. Kennan won his point by declaring with some heat that he could and would ride wherever the prince would lead. The mountaineer accepted this as a challenge and took the impudent American globe-trotter along in order to teach him a lesson. The lesson itself formed the climax of interest in the remainder of the lecture.

At this point the lecturer retired to clothe himself in the national dress of the mountaineer. It consisted, in part, of a rough weather hood somewhat like that attached to the cloak of the Capuchin (only capable of being folded much more closely across the face), covering a turban shaped affair which was worn alone in fair weather, and which was capable of accommodating in its voluminous folds as in a pocket some two or three days' provisions. A sort of long heavy overcoat shrouded the body, and was gathered at the waist by a wide heavy sash in which five or six antiquated but very costly and handsome pistols of varied lengths and calibre were stuck, besides two long keen knives, formidable either for hewing or thrusting or throwing. The ammunition for the guns was carried in two loops across the chest, and consisted of tubes containing just the right charge of powder and closed by a bullet of the right calibre. To load, the horseman, riding at full speed, took the bullet from the tube with his teeth, poured the powder down the muzzle, rammed the bullet home and was ready to fire again. When not in actual action the bullets are replaced by bright-colored papers, which are thought to add greatly to the picturesqueness of the warrior's appearance.

Standing in this costume, Mr. Kennan gave the remainder of his lecture. It described the warlike welcome accorded to the prince at the first large village approached—the charge of a body of heavy-armed troops at full speed, as if to ride down the travel-worn visitors, the instantaneous stop in mid-career, and the salutation shouted forth. It dwelt upon the rude games and amusements of the villages. It pictured the dark, comfortless interior of the houses built for safety high up on the top of some almost inaccessible crag, where the roof of each house, cut out of the face of the cliff, formed the front yard of the one above, and where the narrow slits of windows were unprovided with glass and admitted the wintry blasts and the damp mist that gathered on the mountain side. It conjured up before our minds the broad outlook from the top of some mountain path over valleys, the depth of which the eye failed to sound, to range on range of snow-covered peaks, "where each peak held its glacier up as a shield against the sun." And ever the path grew more rugged and the scenery more wild and terrible, until the backbone of the ridge was crossed and the climax was reached in the perilous descent of the mountain. Where the prince and the traveler rode down the huge face of the precipice

by zigzags where the angles went straight out into infinity, and where while the left knee grazed the rocky wall, the right stirrup hung over a thousand feet of empty air. I think there were tense muscles in all that audience as the good horse began to slide over the smooth, loose rock at the end of an incline which shot straight out into space, and where the only safety lay in turning the angle into the next zigzag; and certainly all drew a sigh of relief when the traveler, bathed in perspiration, and with every nerve utterly lax, finally reached the bottom and safety.

The lecture closed with a brilliant tribute to the fighting hero of the race, who in the final battle of 1859 fixed himself with a chosen band on the top of a truncated mountain some three miles square in area and bordered on all sides by precipitous cliffs. There was only one possible pathway to the top, and on this top the leader had collected sheep and other provisions, so as to laugh at the besiegers. Hither after the final defeat in the field he with 300 followers retired and bade defiance to all the efforts of their enemies.

But the precipitous impregnability of their defenses lulled them into too great security. While they watched the pathway, their enemies were busy by night on the face of the cliff three miles away. Slowly and noiselessly they drilled spikes in the rock foot by foot, until the top was won and a rope swung down into the abyss. Then on a dark and stormy night a long narrow thread of human bodies slowly wound itself upward along the precipitous face, until at the dawn a thousand men stood on the dizzy height. The Caucasian mountaineer found himself begirt by foes. He fought the battle long and well. Finally, forced to the edge with the relentless foe in front and empty space at his back, he threw himself headlong to the rocks far below, and the Russian victory was complete.

H. EDWARDS.

Natural History Society.

Prof. Barrows talked before the Natural History Society last Wednesday night to a small but appreciative audience, on "The animals of South America." He spoke of the animals found in Entre Rios and the central part of the Argentine Republic. As far as possible they were compared with those found in the United States, which made the talk very interesting and instructive.

The Jaguar or South American tiger inhabits jungles and lives principally on the Capybara, the largest of the rodents. Three deer were spoken of, one nearly as large as our elk, a small chocolate-colored one, and the Gama, which was far the commonest. The Viscacha or Biscacha is a rodent which weighs from 12 to 15 pounds, and lives in communities in burrows. The Cavy or wild Guinea Pig was found in great abundance in the valleys. The other principal animals mentioned were the Pampas hare, a large fox, a little striped skunk, three species of armadillos, a water rat, three species of opossums, a large lizard, and two other members of the Guanaco family of camels. Quite a number of personal experiences and adventures with animals mentioned were also given, which added greatly to the interest of the talk. D. S. B.

About Campus.

The base ball candidates have been practicing regularly, the outlook now being better than last year.

Professor Marshall has just concluded a test for rabbies in dogs at North Branch, Mich., resulting in positive diagnosis.

Professor Barrows addressed the Natural History Club Wednesday evening on "Personal Experiences with South American Animals."

Bedros H. Takvorian, '02, left last Wednesday evening for Buffalo to take up his work at the Exposition. At the time of his leaving he had not fully decided whether he should return here next fall or enter Cornell to continue his agricultural studies.

The juniors in Systematic-Botany are each investigating some topic which is interesting botanists at the present time. The work calls the class out doors a good deal to make use of the botanic garden, the campus, and neighboring woods and swamps.

Spring flowers have begun to appear and the Botanical Club is interested in taking observations about time of appearing for comparison with similar observations taken in previous years. The work in the Botanic Garden has commenced for the spring. The general plan will be the same as usual.

W. S. Palmer and G. M. Bradford are carrying on some grafting experiments which greatly interest visitors at the greenhouse. Potatoes have been grafted on tomatoes and vice versa; fuchsias on geraniums, and dozens of other similar combinations which would seem impossible to the average person. In all there are about 250 grafts; the object being to ascertain the reciprocal influence of stock and scion.

Owing to the impossibility of giving laboratory work in Bacteriology on account of the temperature, the class in that subject is devoting its attention to lecture work, which is a general resumé of the laboratory work done during the two previous terms, and a general discussion of the entire field of Bacteriology. The aim of the lecture is to fill up the discrepancies of laboratory work and to acquaint the students with the fundamental principles underlying the science.

The note, in our last week's issue, concerning F. G. Carpenter's shotput contained two errors. It read as follows: "Frank G. Carpenter of '01, recently put the 16 lb. shot nearly 30 feet thus beating the M. I. A. A. record. Carpenter has done no training this season so the feat is quite a remarkable one. If Carpenter concludes to go onto the track teams for this M. I. A. A. field day he will undoubtedly be a winner." Mr. Carpenter's class is '02, and the number 30 should have read 36. Those familiar with the M. I. A. A. records, on reading the note will readily have guessed that there was some error in the number.

Songs of All the Colleges.

HINDS & NOBLE, N. Y.

Jolly college students, who know that even in the merriest crowd the fun is never at its height until some one begins to sing something "colleggy," will find cause for pro-

found joy in this new book. Here are songs for every mood—the song one once heard and liked, the long sought in vain among other collections, the shrieking absurdities that rival the Jabberwock, but without which no level-headed college student would consent to prolong existence, tragi-comic things like "Romeo and Juliet," fairly reeking with pathos, delectable ballads of countless stanzas, with double barreled refrains, baffling to any but college-boy lung power—tender, dreamy things, too, for moonlight nights that somehow make one feel sentimental, old "Juanita," for instance, and "Stars of the Summer Night," and soul-stirring songs for the moment when one thrills proudly at the thought of all that *Alma Mater* means.

Some Senior friend, reading the table of contents, may remark, "Why, I have this, and this, and this," and the Junior cousin, perhaps, will claim a few others; but neither, we feel sure, can boast of a book containing, as this does, 181 songs, nor of so handsome a volume—none of your dingy brown paper-covered books which you keep thrust out of sight under the window-seat, but a book that is well gotten up and good to look upon. The publishers are to be congratulated on this achievement. In the forcible, if inelegant, language of the bright lexicon of youth, "It's all right."

The opening of the new term has been auspicious. Students have returned from the week's vacation renewed in spirit and strength. The weather has slowly settled into real spring, and the sick and debilitated are feeling the health-giving influence of the milder air. The term is a short one and there is much to be done. There is the regular course work to attend to, the preparation

for the oratorical contest meet here, the long pull for getting into shape to meet the other colleges on the athletic field, and the provision for the commencement season of festivity and rejoicing. Let us "lay aside every weight and the sin which doth so easily beset us," and patiently and conscientiously carry through every duty.

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C. D. WOODBURY, HOLLISTER BLOCK.

Old Students.

A. H. Stone, '99m, has entered the employ of the division engineer of the Lackawanna Railroad at Scranton, Pa.

The Michigan Engineer the official organ of the Michigan Engineering Society contains a poem by Francis Hodgman, ('63, M. S. '65).

Kenyon L. Butterfield ('91a) has an article in the April *Review of Reviews* on "Neighborhood Coöperation in School-Life—The Hesperia movement," and one in the April *Forum* on "The Grange."

L. K. Cowley, (with '01), now a prosperous stock-breeder at Wichita, Kas., visited the campus last week. Mr. Cowley devotes most of his attention to cattle and hogs. He is loud in his praises of Kansas and Kansas prairie grass.

William A. Cannon, (a'87-'88), received his A. B. at Stanford in 1899. Last year he was Assistant there in Botany, and now he is studying for an advanced degree at Columbia. He wrote from New York City under date of April 3, to Professor Wheeler that he hoped to put in part of his long summer vacation teaching in some summer school. Among other things he says: "My little study on the anatomy of the California variety of the American mistletoe (*P. villosum*) is to come out shortly in a Torrey Botanical publication—the *Bulletin*, I believe. I hope to get my degree next year and then I shall try to make a living as a botanist."

About the Campus.

A dual meet is under negotiations with Alma, to be held in about a month.

Foreman E. R. Blair began plowing ground for oats on the College farm Wednesday.

Although somewhat cool for outdoor track work, most of the athletes have been on the track this week.

The ground around the Dairy Building has been covered with several inches of surface soil and is now ready for seeding.

Professor Diemer returned last week from a trip to Milwaukee where he visited several leading engineering works and returned with a number of new ideas.

Will the student who found a copy of "Rights and Duties of American Citizenship" in the chapel the last of the winter term kindly notify owner or return to room 43 Williams?

The farm department has received a model of the horse, to be used in studying some of the principles of draft with regard to the direction of draft and the form and weight of the animal.

The Zoölogical Department recently acquired a collection of bird skins and eggs from Leon J. Cole (with '99). There are about 200 skins and several hundred eggs mainly of Michigan birds.

The out-doors work in Horticulture for the Agricultural sophomores began Wednesday afternoon. The class is divided in sections of from five to ten, and each student will be required to spend from one to five afternoons in the various operations that are carried on in the orchard, garden, or park.

Through the efforts of Miss Avery a nine hole golf links will be laid out on the campus. This will make one of the best and pleasantest grounds in the State, and quite a number of enthusiasts are greatly interested in the plan.

Mr. S. Fred Edwards is at work upon the de-nitrifying bacteria found in the soil of the College farm, for the purpose of studying them in an isolated condition to ascertain qualitatively and quantitatively their various actions in soil defertilization.

Miss Fleta Paddock is concluding her thesis upon the thermal-death-point of bacteria yeast and molds found in spoiled canned fruit. The object has been to determine whether the spoiling of canned fruit is due to mere carelessness in canning or to resistant micro-organisms.

Down by Bemetsky's.

Listen while I tell you a tale of woe and weal,

Of work "down by Bemetsky's, by the turning round grind wheel,"

Roger got the fever to work vacation round. And many stalwart volunteers he readily had found.

Five upright sons of M. A. C. in the spring of '01,

Sought work "down by Bemetsky's," all counting on the "mon,"

They had spent the night with Landlord Holt, down by the River Grand, And had started out in overalls, with wagon-loads of sand.

Two freshmen were among us, who had worked down there before,

And knowing where their work was, they vanished "by the door,"

Then up stepped Jink and Roger, and our football player, Doc;

Trembling in their lower limbs, their knees together knock.

For a "short course" "by the grind wheel," the Super' put them down,

When up steps Jink, the machinist, with a sour look and frown,

"I won't work 'by the grind wheel,' I'm 'too good enough' to grind,"

So he went to "knocking" sulkey plows, work much more to his mind.

Old Roger took the "grind wheel," and he raised a mighty row,

So he's working "by the bench on," making pieces for a plow.

Old Doc. he got the "puddin'" working in the painting room,

But laziness o'ercame him, and he quit it pretty soon.

On Grand Street, "down by Landlord Holt" there is a folding bed,

And but for circumstances, old Roger would be dead.

Now Doc and Jink and Roger cooked up a mighty scheme,

And brought some "freshs" and "chill-blains" together "by the scene."

Two folding beds, a cot and couch, were the "sleepers" that they had,

And the sleep 'twas slept upon them "by the first night" it was bad.

Old Doc, he got to "scrapping" cause a freshie had his place,

And the folding bed it tumbled, nearly spoiling Roger's face.

All hail to Club X boarding, its A 1 for we say so,

And we've boarded "down by Landlord Holt," and therefore ought to know,

And progressive pedro parties are "not in it," with the game

As played out here at College, for we have "been at the same."

We've worked "down by Bemetsky's" and we've worked out on the "Hort,"

But the work "down by Bemetsky's" is not of the other sort,

Ten shillings by Bemetsky's are the wages that they pay,

But give us work for Michigan at one dollar straight per day.

I. G. J.

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THE STUDENTS' RETURN AT THE M. A. C.

It gives new life to the Capital City. We cordially invite all to make their home at our store. Mr. Homer Burton and Mr. Arthur Hart will make daily trips to every one who desires to see them on the M. A. C. grounds or in the vicinity. If you are not called upon drop us a postal and we will call. Samples sent on application.

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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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