

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 7.

LANSING, MICHIGAN, TUESDAY, MAY 20, 1902.

No. 34

NOTICES.

Baseball Thursday, Detroit College vs. M. A. C.

Pinafore—Armory, Friday, May 23, 8 o'clock. Admission, 15 cents.

Meeting of all RECORD editors Monday evening, 6:30 p. m., College Hall.

Olivet's wrestlers will meet our wrestlers at the Lansing Armory, Monday, May 26th.

The question before the Debating Club for May 22 is: *Resolved*—That a more strongly centralized form of government for the United States should be adopted. The affirmative debaters are Messrs. J. G. Moore, and W. T. Merick. The negative debaters are Mr. A. R. Alger and Miss Ross.

AN EVENING OF MUSIC.

An amateur performance of Pinafore, the comic, nautical opera by Gilbert and Sullivan, will be given by the M. A. C. chorus in the College Armory, Friday evening, May 23, beginning promptly at eight o'clock. Admission, 15 cents.

The opera is in two acts and tells of the coming on board the good ship "Pinafore" of Sir Joseph Porter, K. C. B., and his admiring female relatives, the falling in love of Sir Joseph with the captain's daughter and his failure to win her heart and hand because of her previous but concealed attachment for Ralph, a common sailor. Matters are suddenly made smooth for the lovers by Buttercup's announcement that Ralph is in reality of noble birth. Sir Joseph, still a trifle disappointed, consents to wed his Cousin Hebe and all ends happily.

The solos will be taken by the following persons:

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

Mr. Geo. Humphrey, who was to have taken the part of Sir Joseph Porter, K. C. B., was called away Saturday morning and the part will be taken by Mr. Earl Barkley.

CLASS GAMES.

Monday afternoon, the 12th, the Sophomore base ball team defeated the Freshmen team. The game was lost by too many errors on the part of the Freshmen. Batteries: for Freshmen, Jordan and Baldwin; for Sophomores, Stacks and Dent.

Friday afternoon the Junior team defeated the Freshmen team by the score of 4 to 6. Batteries: Jordan, and Strong, and Baldwin, for Freshmen; for Juniors, Yates and Kingsley.

In a rather one-sided game Saturday afternoon the Preps. defeated the Seniors. Score 4 to 12. The Senior infield did not support the pitcher at all. Batteries: for Sen-

iors, Millsbaugh and Francisco; for Preps, Holly and Thomas and McKenna.

BASEBALL.

M. A. C. lost to Albion Wednesday in the first championship game between the two colleges. The victory was not so much due to Albion's brilliant playing as to M. A. C.'s wild throws and costly errors. Three times wild throws to first base were made allowing eight runs to be scored, and in each case after two men were out and bases full. Both Case and Millar pitched good ball and with any decent support the score would have been close.

M. A. C.	AB	R	B	PO	A	E
Millar, p.	2	4	1	0	4	2
Tower, c.	5	0	2	4	3	0
Gunison, c. f.	4	0	1	0	0	0
Wilcox, r. f.	5	0	1	2	0	0
Case, p.	4	1	1	1	1	0
B. Frazer, 3 b.	3	1	0	1	2	3
Henderson, s. s.	5	1	0	0	2	4
J. Frazer, l. f.	5	0	0	1	0	0
Rasmussen, r. b.	2	1	1	6	0	1
*Smith, 2 b.	1	0	0	0	0	0
Totals	36	5	6	19	10	8

* Took Millar's place at 2d in 8th inning.
† Relieved by Millar in 8th inning.

ALBION.	AB	R	B	P	O	A	E
Striker, 1.	4	3	1	2	0	0	0
Church, 2.	4	1	0	5	1	0	0
Sebastian, c.	4	2	3	1	0	1	0
Simmons, 3.	6	2	3	0	0	0	0
Karsten, p.	5	2	0	3	4	1	0
Hyney 5.	5	1	2	2	2	2	2
Howe r.	5	2	1	1	0	4	0
McKale, m.	4	2	1	0	1	0	0
Kinckbaker, 2.	3	0	1	5	0	0	0
Totals	38	15	12	19	8	8	8

Base on balls off Case 6, Millar 1, Karsten 5. Struck out by Case 2, Millar 4, Karsten 5. Home run, Simmons. Umpire Fitzgibbons.

The Normal defeated M. A. C. Saturday at Ypsilanti in a good game, the official score being given below.

NORMAL.	AB	H	O	A	E
Dennis, 1.	4	1	8	0	0
Hyames, p.	5	2	4	7	0
Latham, 1.	5	3	3	0	0
Waldron, 2.	5	2	2	1	0
Smith, s.	4	1	1	0	1
Shrigley, m.	4	1	2	1	0
Ireland, 3.	4	1	1	3	1
Witmire, c.	4	2	6	0	0
Norse, r.	4	0	0	0	2
Totals	39	13	27	12	4

M. A. C.	AB	H	O	A	E
Henderson, r.	5	2	0	0	0
Towar, c.	5	0	7	3	0
Gunnison, m.	4	1	2	0	0
B. Fraser, 3	5	0	4	0	1
Millar, p.	4	1	2	6	0
Smith, s.	3	1	0	2	1
J. Fraser, 1.	4	0	0	0	0
Wilcox, 2.	4	2	3	3	2
Rasmussen, r.	4	0	6	0	0
Totals	38	7	24	14	4

Innings 1 2 3 4 5 6 7 8 9
Normal . . . 1 0 0 4 0 2 0 1 *-8
M. A. C. . . . 0 0 1 0 0 0 1 2 0-4

Runs—Hyames, Smith, Shrigley 2, Ireland, Witmire 3-8; Henderson, Millar, Smith, Wilson-4. Two-base hits, Latham 2, Witmire 2. Hyames and Millar. Bases on balls—By Hyames 1, by Millar 1. Hit by pitcher—Hyames 1. Struck out—By Hyames 5, by Millar 6.

THE MILITARY HOP.

The military hop given last Friday night in honor of the class of '02 was planned to be the event of the season, and there was no hitch in carrying out the plans that detracted one jot or tittle from the general good time. About one hundred couples were present and enjoyed the occasion.

The decorations were strikingly original. The arrangement of lights and cozy-corners and the manner of serving refreshments were all new and attractive features. Boos' orchestra, of Jackson, furnished excellent music and to this can be attributed much that went to make the hop a very enjoyable one.

Prof. and Mrs. Vedder, Dr. and Mrs. Waterman and Prof. and Mrs. U. P. Hedrick were the guard of honor.

To those who will not be back another year, this last hop of the season will long be remembered as the best.

DEBATING CLUB.

The question debated Thursday evening was: *Resolved*, That co-education is an undesirable system of education. The affirmative debaters were—W. O. Hedrick and Fred Baker, the negative were—D. S. Bullock and C. J. Auten. The critics report was given by Geo. Severence. The judges were—Mr. O. L. Ayrs, Mr. Thomas Gunson and Miss Mattie VanOrden. The decision of the judges was two in favor of the negative and one in favor of the affirmative.

It is to be regretted that such small crowds attend the meetings of the Debating Club; some excellent debates are being held and those who remain away are certainly missing some good opportunities to become posted on several of the important issues of the day.

HORT. CLUB.

The first number on the program given before the Hort. Club Wednesday evening was a talk by Miss Waterman on her thesis work. The objects of the work pursued were the determination of the effects, on the length of stem, size of flowers, and time of flowering, produced by girdling carnations. Miss Waterman stated the conclusions arrived at as follows: First, girdling decreases length of stem; Second, decreases size of flowers, and third, increases earliness of flowers. In the discussion which followed Prof. Hedrick stated that girdling could not be recommended for commercial houses but could be for the production of specimen flowers.

Mr. T. G. Phillips spoke next on the Bacteriology of Wood. Mr. Phillips was assisted in his work by Mr. Wermuth and the results of the work were given by Mr. Wermuth.

Mr. Gunson gave an interesting talk on chrysanthemums. His remarks were illustrated by a very poor set of slides from the Kansas Agricultural College.

ALUMNI.

'76. R. E. Caine has been spending most of the week at M. A. C. making investigations in the interest of the cereal food industry.

'85. We print below extracts from the circular letter which Prof. J. D. Towar mailed to M. A. C. friends from Honolulu. Prof. Towar left Lansing March 31 by way of Kansas City for southern California. Pasadena and Los Angeles were reached April 5th. At Claremont Prof. Towar and family visited with Prof. Cook, and Mr. Reynolds was their host at Pasadena on April 6. The rest of the narrative is given in Prof. Towar's own words:

April 7—Spent most of the forenoon straightening out imperfections in our tickets. Visited Mt. Lowe and thoroughly enjoyed its wonderful inclined railway and the still more wonderful electric road leading to the Alpine Tavern. The view was grand and well worth the time and expense of a visit. We take train again at night for San Francisco, but find ourselves obliged to wait eight hours at Barstow. Stay the night in a railroad boarding house.

April 8—En route for San Francisco all day and night, going through the delightfulest country at night.

April 9—Take first ferry for San Francisco. Meet Carl Bank on the street. He takes all in, entertains us royally, gives us trolly ride and takes us to the University of California.

April 10—We embark, Carl Bank and Miss Cottrell see us off. We are really glad that the teary parting from family and the many friends who saw us off did not have to occur here. We think of things as we move away from land on a large ship for a long ocean voyage, that we never think of at other times. True, the separation is gradual, and it gives time for serious, sublime and sentimental thought.

It is but a short time till we pass out the Golden Gate, the pilot leaves us, and land disappears. In fact, in less than three hours Hannah is seasick, can't go to lunch, DeLoss doesn't feel very well, J. D. eats lightly, and we all feed the fishes during the afternoon, and we pity the poor fishes too. But next morning we all go to breakfast at 8:30 and during the rest of the voyage are ready for every meal.

The following days bring fine weather for sailing, a smooth sea of a beautiful blue, birds following us all the way, nice people on board, good food—7 meals a day—books to read, time to rest and sleep, games, a little whist but no such players as we know at home, and no anxiety, care nor responsibility.

In a little over a day from now we will look for Leper Island, after that follow the others of the Sandwich group. We expect all day, Wednesday, at Honolulu and will begin the next notes on what we see there.

THE M. A. C. RECORD.

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COLLEGE YEAR BY THE
MICHIGAN STATE AGRICULTURAL COLLEGE

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TUESDAY, MAY 20, 1902.

ALUMNI.

'92m. L. C. Brooks, recently with the Brown Hoisting Co., Cleveland, has re-entered the Navy Department, with a promotion in position and an advance in salary. He is electrical inspector, stationed with William Cramp & Sons' Ship and Engine Building Co., Philadelphia.

'98. Dewey Seeley visited the College last week while on leave of absence from the Agricultural department at Washington.

'99. Instructor Swift spent Sunday at M. A. C. His permanent address is 516-518 Widdicomb Bldg., Grand Rapids, Mich.

CLASS FIELD DAY.

Field day was a success in every way last Saturday, considering the poor condition of the track. All events, except the finals and wrestles, which take place this week, were pulled off. Three of the M. I. A. A. records were broken in the shot put, hammer throw and standing broad jump. Later in the day Childs broke his own record with the hammer, throwing it 124 ft. At the present time the sub-freshmen lead in points, which are as follows: ('02) 11, ('03) 25, ('05) 31, ('06) 38.

100-yd. dash—Kastner ('05) 1st, Moon ('06) 2d, McKenna ('06) 3d, time 10 3-5 sec.

220-yd. dash—Kastner ('05) 1st, G. Verran ('06) 2d, Downer ('05) 3d, time 25 sec.

440-yd. run—Kastner ('05) 1st, Crosby ('02) 2d, time 56 sec.

880-yd. run—Holdsworth ('03) 1st, Burrell ('05) 2d, Wilson ('06) 3d, time 2 min. 21 3-5 sec.

1-mile run—Phillips ('03) 1st, Holdsworth ('03) 2d, Wilson ('06) 3d, time 5 min. 50 sec.

2-mile run—Phillips ('03) 1st, Holdsworth ('03) 2d, Burrell ('05) 3d, time 12 min. 15 sec.

Running broad jump—Moon ('06) 1st, Childs ('06) 2d, Baldwin ('05) 3d, 20 ft. 9 1/2 in.

Standing broad jump—Carpenter ('02) 1st, McKenna ('06) 2d, Burrell ('05) 3d, 10 ft. 4 1/2 in.

Running high jump.—Moon ('06) 1st, McKenna ('06) 2d, Baldwin ('05) 3d, 5 ft. 4 in.

Running, hop, step and jump.—Moon ('06) 1st, Holly ('06) 2d, Norton ('03) 3d, 38 ft. 9 1/2 in.

Pole vault.—Blanchard ('03) 1st, Stevens ('06) 2d, 8 ft. 6 in.

Shot put.—Carpenter ('02) 1st, McKenna ('06) 2d, Childs ('06) 3d, 36 ft. 9 1/2 in.

Hammer throw.—Childs ('06) 1st, McKenna ('06) 2d, Carpenter ('02) 3d, 116 ft. 10 1/2 in.

Discus throw.—Kratz ('05) 1st, Carpenter ('02) 2d, Childs ('06) 3d, 107 ft. 9 1/2 in.

Relay (4-5 mile).—('03) 1st, ('06) 2d. Time 3 min. 15 sec.

1/4-mile bicycle.—Rae ('05) 1st, Mason ('03) 2d, Backofen ('06) 3d, Time, 36 sec.

1-mile bicycle.—Rae ('05) 1st, Mason ('03) 2d, Backofen ('06) 3d. Time, 2 min. 43 2-5 sec.

5-mile bicycle.—Knapp ('05) 1st, Rae ('05) 2d, Mason ('03) 3d. Time, 14 min. 45 sec.

The following list shows the number of points each man won for his class. Out of the twenty-two contestants, fourteen are new men, being their first year in college:

Moon, ('06), 11.
Carpenter, ('02), 9.
McKenna, ('06), 9.
Kastner, ('05), 9.
Rae, ('05), 8.
Holdsworth, ('03), 7.
Childs, ('06), 7.
Phillips, ('03), 6.
Mason, ('03), 5.
Burrell, ('05), 5.
Blanchard, ('03), 3.
Kratz, ('05), 3.
Knapp, ('05), 3.
Crosby, ('02), 2.
Wilson, ('06), 2.
Baldwin, ('05), 2.
Holly, ('06) 2.
Stevens, ('06), 2.
G. Verran, ('06), 2.
Backofen, ('06), 2.
Norton, ('03), 1.
Downer, ('05), 1.

In next week's issue will be the remaining events and total number of points for each class. It will be a close run between the freshmen and sub-freshmen for first place.

This coming Saturday the track team will go to Alma contesting in a dual meet with that college.

INSECT COLLECTIONS FOR HIGH SCHOOLS.

During last summer and autumn the zoological department collected and preserved a large number of the more common insects of the State with the intention of distributing them to the schools of Michigan, in the hope of awakening or increasing an interest in natural history and aiding teachers and pupils in the study of entomology. During the winter this material has been carefully classified and some of it has been already sent out to high schools in different parts of the State.

Through the liberality of the State Board of Agriculture, the department was able to provide some very nicely finished and thoroughly pest-proof cases which are intended to hang on the wall of the school room or laboratory. Each case, 24 inches by 16, is of polished cherry, with plate glass front, and contains from 65 to 75 common in-

sects carefully selected so as to show the more important orders found in the State, as well as many of the interesting facts of insect life, such as larval and adult stages, protective coloration, mimicry, beneficial and harmful species, etc. Each specimen is accompanied by a clearly printed label giving both common and scientific name, and is numbered to correspond with a descriptive list which is sent with each collection. Of course the collections are not all exactly alike, but there is a general similarity in all, and the total number of specimens is about the same in each. As a sample, collection No. 20 contains the following:

Order Odonata, dragonflies, 1 specimen; order Orthoptera, grasshoppers, etc., 7 specimens; order Hemiptera, bugs, 8 specimens; order Neuroptera, lace-wings, 2 specimens; order Trichoptera, caddiceflies, 1 specimen; order Lepidoptera, butterflies and moths, 17 specimens; order Diptera, flies, 11 specimens; order Coleoptera, beetles, 13 specimens; order Hymenoptera, bees, wasps, etc., 13 specimens; total 73 specimens.

With such a case as a sample, it is believed that students in many of the schools will be inclined to follow up the study, making supplementary collections and learning to see and appreciate the wealth of interesting and valuable material which is everywhere available.

There is little or no prejudice against the collection of insects, and there is not the same danger of extermination which attends the forming of herbariums by beginners in botany. As a field for nature study entomology is unrivaled, the only drawback being the surfeit of material and the bewildering number of forms which makes the classification almost hopeless to the beginner. But, recently, several excellent elementary text-books in this line have appeared, and the really enthusiastic teacher will have little difficulty in doing good work, the best part of it being that the pupils will be able and glad to find the specimens, and, with a little instruction, to prepare and preserve them.

The present plan of distribution is to supply the principal high schools first, not because they are the best places for the study of insects but simply because it is impossible to send cases to all the schools, and a case placed in the high school will be accessible in most cases to the teachers, at least, of the other schools. Since there are more than one hundred first-class high schools in the State it will not be possible

to supply all these at once, but before another winter it is hoped that this may be accomplished and that something may be done for some of the lower schools. Thus far only 25 cases have been sent out, but a second lot of 25 is nearly ready, and these will be followed as soon as possible by the remainder. In order that there may be no appearance of favoritism the schools are being supplied in alphabetic order.

In most instances thus far the collections have been received very cordially—even enthusiastically—and letters from teachers, principals, and superintendents show that they appreciate the gifts.

WALTER B. BARROWS.

Y. M. C. A.

Thursday evening prayer meeting was led by Mr. Burr Hesse. Subject: "Lest We Forget." We are so apt to forget at times that the actions of our every-day life are the materials from which character is built. "Trifles make perfection, but perfection is no trifle."—Michael Angelo.

The Sunday morning chapel services were conducted by Rev. Frye of the Central Methodist church, Lansing. Text: Colossians, 3:1, "If ye then be risen with Christ, seek those things which are above, where Christ sitteth on the right hand of God." Mr. Frye gave the when, how and why we should "seek those things which are above." The sermon was very interesting and beneficial.

The union meeting of the Y. M. and Y. W. C. A. Sunday evening was led by Mr. Longyear. Subject: "Be strong." If a Christian character is to be influential it must be strong. The world admires strength of character and what the church most needs today is strong men and women, for that reason Christian students should be in earnest and cultivate those virtues which will result in strong, noble lives.

TENNIS TOURNAMENT.

The tennis tournament played last Friday and Saturday was won by Mr. Judson, sp., Mr. Horton, '02, second. The matches were as follows:

Preliminary round. Judson-Strobel, won by Judson 6-1, 6-1; Willett-Brungen, won by Willett 6-1, 7-5.

Semi-Final, round, Horton-Willett won, by Horton 8-6, 6-2.

Final round, Judson-Horton, won by Judson 7-9, 6-2, 6-3.

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ABOUT THE CAMPUS.

L. F. Bird spent Sunday at his home in Millington.

The farm department began the planting of corn May 15.

George and Lillian Anderson received a visit from their father Saturday.

The dairy now receives four thousand five hundred pounds of milk daily.

The tennis court back of Station Terrace has been put in shape the past week.

Mrs. Ella M. Kedzie attended the graduating exercises of the Oberlin Theological Seminary Thursday.

Instructor Reed is collecting material in the northern and eastern part of the state for the fertilizer bulletin.

The *American Cheese Maker*, published in Grand Rapids, had in its last issue a likeness and biographical sketch of Instructor Michels.

The Misses McNeil and Dey, of Springport, attended the military hop and visited with College friends. Miss Dey is a sister of Harry Dey, '03.

Misses Mabel McCormick and Irene Farley, of Albion, attended the military hop Friday evening. Miss Farley will be in College next year.

The Board of Directors of the Book Buying Association are contemplating the erection of a building for a book store. The location and cost have not been decided on.

Hebblewhite, '06m, received a visit from his father one day last week.

Fred Sackrider, '04, spent Sunday at his home near Jackson.

Engineer Newell has bought a lot in Oakwood and will build this summer.

Mr. M. C. Bullock, of Olivet, visited his brother, D. S. Bullock, Friday.

Instructor Holbrook received a visit Saturday and Sunday from Mrs. Holbrook.

A R. Alger, '05m, had the misfortune of having his bicycle stolen while attending Pilgrim church one evening last week.

Mr. Fleigel, agriculturist of the Sebewaing Sugar Co., is spending a week at M. A. C., studying the growing of sugar beets.

Miss Crowe has had rather serious trouble with her eyes the past week, being compelled for part of the time to stay in a darkened room.

The College population need not be alarmed at the appearance of that huge black monster that so frequently travels around the campus. It is only some Seniors threshing out their thesis.

Wilson G. Hosmer, who is now playing third base on the Lansing State League team, played second base last year for the Central University (Ky.) team. Director Denman was coach of this team last year. Three other men of the same team are playing on professional state league teams this season.

A small party of College folks spent Saturday at Pine Lake.

Theodore Miller, ex '02, visited friends at the College over Sunday.

Viola Messinger, with '05, was married recently at her home in Pontiac.

Mr. Albert King, of Battle Creek, visited Mr. Fred Halbert, '04, Saturday and Sunday.

Gordon Stuart, '06m, will have an article in the June *Strand* entitled "A Freshman Stack."

Howard Tilden, '05m, entertained his sister as his guest Friday, Saturday and Sunday at the College.

Amyr C. Mitchell, with '03, was married April 11, 1902, to Miss Minnie S. Rose, of Marshall, Mich. His present address is Seattle, Wash.

Last week some of the cattle from the fields across the river damaged the botanic garden slightly, having crossed the river on the new bridge.

The sophomores defeated the juniors 14 to 8 yesterday evening in a hotly contested game of ball. Yates and Priest were the opposing pitchers.

The museum has received two interesting additions, one a specimen of Mound-Builder pottery from St. Louis, Mich., the other, specimens of orthoclase twin crystals, given by Mr. Van Zimmerman. The crystals were found in Colorado.

W. T. Welch, a student in M. A. C. from '82 to '86, visited the College last week. Mr. Welch remarked that the changes of a decade at the College seemed very great to

him. He received for manual labor while here four cents an hour and then, as Dr. Beal and Mr. Troop assured him, was overpaid.

The Russell House, of Detroit, has just placed an order with the Dairy for one hundred and fifty pounds of butter a week. The Cadillac has had a standing order for some months for from two hundred to two hundred and fifty pounds a week. A Boston commission firm has recently offered to take all the butter the Dairy can furnish in tubs at highest Elgin price f. o. b. Lansing. M. A. C. butter is highly appreciated for quality and flavor.

Mrs. A. E. McCrea, the noted landscape architect of Chicago, visited the College on last Friday. She has charge of the depot grounds and parks of the Rock Island, St. Paul and Grand Rapids & Indiana railroads. At one time she had charge of Lincoln Park, Chicago, and much of its grandeur and beauty is due to her energy and skill. She was delighted with the campus and insisted very strongly that the College should offer a course in landscape architecture for young women. She maintains that the work is well suited to young women; that there is a demand for their services, and that there are many able young women in the country who are very anxious to take up such work. At present there is not in this country such a course open to young women.

The X-Ray from the West Bay City High School is a very creditable paper.

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ABOUT THE CAMPUS.

The May number of the *Physical Review* contains an article by Instructor Taylor on the use of his relay telephone receiver in wireless telegraphy, together with a brief discussion of two of the characteristic curves which he succeeded in obtaining from this instrument last term. Mr. Taylor has installed an equipment in his room in Lansing which will enable him to devote his evenings to the pursuit of his research work in connection with the single contact coherer.

BOTANICAL CLUB.

The program of the Botanical Club, last Tuesday evening, was exceptionally interesting. The first number was a talk by Mr. J. L. Thorne on Carnations. Mr. Thorne told of the methods of propagation and culture. He discussed the merits of the different varieties, their rank on the market. He condemned the Lawson, to some extent, on account of its losing color in the sunlight. He recommended for white varieties, Queen Louise and Bonhomme; for pinks, Mermaid; light reds, Dazzler and Crane; dark reds, Roosevelt and Egypt; yellow, Gold Nugget; variegated, Prosperity and Novelty. Mr. A. C. Miller followed with a talk on Economic Botany of Kansas. He told of the main crops raised, methods of culture and harvesting. Also told of a few of the more troublesome weeds.

THE BUFFALO SALE.

The steers fed by the experiment station during the past winter were shipped to Buffalo a week ago last Saturday. They had been fed in three experiments. At first equal areas of corn were cut, one plot cut into the silo, the second husked and the grain ground, and the third fed from the shock. The results indicated that the silage was an economical feed for the steers but had no superiority over the husked and ground corn fed with the shredded stalks. The corn fed from the shock cost the least and gave somewhat the least gains.

In the second experiment, corn meal and cottonseed meal were contrasted as a grain feed. Here the advantage was upon the side of the corn meal. Finally corn silage was tried as a fodder for finishing the steers. Twenty steers made a total gain of 1402 pounds in five weeks, the daily ration per steer being twenty-four pounds of silage, four pounds hay, three pounds molasses and fifteen pounds grain consisting of ten parts corn and cob meal and one pound of oil meal.

The bunch of steers was a very fine one and were well finished when shipped. They then averaged 1311 pounds and brought six cents per pound here, no shrinkage.

LIBRARY NOTES.

The following are a few of the many new books recently added to the library:

Addy. The evolution of the English house in which the author traces the changes in house-building from the "Round hut," which was the earliest form of European house, to the present day castle and cathedral.

Durand, Wm. F. Practical marine engineering. A work valuable

not only to the professional man, but intended to meet the needs of those who may desire to fit themselves for positions in the field of marine engineering, without having had the advantages of higher mathematical and engineering education. The book lays greater stress upon the construction, operation, management and care of marine machinery, than upon the designing of such machinery.

Prof. Durand was in charge of the mechanical department at this College from 1887-1891.

Bass. Azucar de Cana (cane sugar). A practical treatise on the manufacture of cane sugar from the standpoint of the planter and of the engineer. The text is in Spanish and English.

Effront. Enzymes and their applications. A study of chemical ferments—designed not only for persons interested in purely scientific studies, but also for those engaged in fermentation industries. Vol. 1 deals with the carbohydrate and the oxidases and their applications. Vol. 2 (in preparation) will take up the study of the proteolytic enzymes and the toxins.

Jones. Economic crises. An able discussion of industrial and financial disturbances and of the causes which produce them.

Phlen. Introduction to public finance. An elementary textbook—Contents—Public expenditures; Public revenues; Public indebtedness; Financial administration. Contains also a bibliography of the subject.

Prelini. Tunneling. In this work the author explains all the operations required in tunneling, and illustrates by suitable examples the applications of these methods in actual practice.

Roberts. The anthracite coal industry. A discussion of the economic history and condition of the anthracite coal industry of Pennsylvania.

In Biography:
Scudder's Life of James Russell Lowell, 2 vols. Allen's Life and Letters of Phillips Brooks, 3 vols. Huxley—Life and Letters of Thos. Henry Huxley, 2 vols. Radot, Life of Pasteur, 2 vols. Balfour, Robert Louis Stevenson, 2 vols., and Life and Letters of John Richard Green, edited by Leslie Stephen.

What influence in college life has proved of most force in my later life?

A college bred business man who met with great success in several enterprises said: "If I had my life to live over I would do less work, make the other fellows do more, and would have more time left for rest, and for a kind of growth which we all feel the need more and more as we approach the great change."—*Michigan Alumnus*.

Harvard and Yale met in joint debate May 12, at New Haven. The question was: *Resolved*, that the immigration of Chinese laborers into our new possessions should be prohibited by law.

The Michigan Alumnus in its last issue has a series of articles about Michigan Athletes, some of the articles being by prominent athletes. An account of Neil Snow's athletic career is given, his likeness also appearing.

The Dartmouth College debating team has been trained this year by a debating coach.

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