

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

VOL. 7.

LANSING, MICHIGAN, TUESDAY, APRIL 22, 1902.

No. 30

NOTICES.

Base ball Saturday, M. A. C. vs. Ypsilanti.

Meeting of RECORD editors Thursday 7:30 p. m., College Hall, No. 7. Important.

On account of the debate with Ypsilanti, the debating club has been adjourned until May 1.

During this week the names of all students as arranged for the college catalogue will be posted on the bulletin boards in College Hall. Students are requested to report to the President's office corrections in spelling, postoffice address, and class.

THE LAST MILITARY.

The officers of the battalion are making elaborate preparations for the last military hop of the year. It will be given upon Friday evening, May 16th. The Boos orchestra of Jackson have been engaged to furnish music for the occasion which in itself is sufficient assurance of a most delightful evening. No expense will be spared in making this last party the most enjoyable one of the season.

No special invitations will be issued and only a definite number of tickets will be sold.

COMMITTEE.

THE U. OF M. GAME.

M. A. C. and U. of M. met on the diamond Friday afternoon for the first time in several years. As expected, U. of M. won, though the score does not indicate all that can be said regarding the game. M. A. C. made nearly as many hits as the university showing that the weakness of the team is not chiefly in batting. Millar and Case were fairly effective, though Case was somewhat wild at times. Poor base running coupled with errors at critical stages of the game tell in a large measure, the story of M. A. C.'s defeat.

U. OF M.

	R	H	P	A	E
Roache r f	4	1	1	0	0
Watson i b	1	2	7	1	1
Campbell 2 b	3	3	2	1	2
Snow l f	3	1	2	0	0
Sh'p'c'se 3 b	3	1	3	1	1
Stripp, c	1	2	6	1	1
Redden c f	1	1	1	0	0
Uteley s s	1	2	3	4	1
Verburg p	3	1	1	8	1

Totals 20 14* 26 16 7

* Millar out, hit by batted ball.

M. A. C.

	R	H	P	A	E
Millar 2 b p	0	2	1	6	0
Tower c	0	2	8	2	1
And's'n l f	0	1	0	0	1
Gun's'n c f	0	3	3	0	0
Case p 2 b	0	1	0	6	2
B. Frazer 3 b	0	1	1	1	2
Hend'n s s	1	2	1	3	1
Rasm's'n i b	1	0	13	1	2
J. Frazer r f	0	1	0	0	0

Totals 2 13 27 19 9

U of M. 4 0 1 4 2 5 1 3 0
M. A. C. 0 0 0 0 0 0 1 0 1

Innings pitched by Millar 4, by Case 5. Double plays Shiappacasse, Stripp, Uteley; Gunnison to Millar. Umpire Fitzgibbons.



M. A. C. DEBATING TEAM, 1902.

On the left is Miss Mattie Van Orden of Petoskey, Mich., a sophomore student in the woman's course, and a member of the Feronian Literary Society. In the center is Mr. E. I. Dail, of Holt, Mich., a senior in the agricultural course and a member of the M. A. C. Debating Club. On the right is Mr. W. F. Millar, of Ray Center, Mich., a sophomore in the mechanical course,

member of the Columbian Literary Society, and of the M. A. C. Debating Club. This debating team has been chosen by competition to debate with a team from the State Normal College on next Friday evening, April 23, at eight o'clock. The question is "Resolved, that it should be the policy of our government to hold the Philippines as a permanent part of the territory of the United States." Our team will defend the negative. The debate will be held at 8 p. m., in the Armory. Admission, 25 cents.

NEW ATHLETIC FIELD.

With the completion of the new bridge, the field of thirteen acres purchased by the College two years ago has been made available for athletic use. The field is directly south of the extreme west end of the campus and across the Red Cedar river. On the north and east, the field is bounded by the river making the location picturesque as well as secluded. The ground rises at a height of from six to eight feet above low water and to prevent flooding in the spring dikes will doubtless be built later, on the sides bounded by the river.

During the past week the field has been scraped and rolled, a baseball diamond laid out and a quarter mile circular track begun besides a one hundred and twenty yards straight away track, which comprises part of the circular track on the north side of the field. Clay will be put upon the diamond in

sufficient quantities to make it fast and the outfield will be seeded down. The football field will run east and west, the east end covering the diamond, and the west the outfield. Later, a grand stand will be built probably at the northeast corner of the field at a convenient distance from the bridge and outside of the circular track which encloses both the baseball diamond and the football field.

The new bridge which is no small feature of the new field is located about one hundred yards from where the river drive leaves the main drive. The bridge is fourteen feet wide and eighty-five feet over all, the superstructure resting on six bents of piles sunk fifteen feet below the river bottom. Its location affords convenient access from all parts of the campus and when the grading is completed to the river drive the approach to the field will be exceedingly good. The cost of its structure was \$525.

ALUMNI.

'68. S. M. Tracy, collector of duplicate specimens for botanists has recently shipped to the College from Mississippi a collection of Gulf Coast plants.

'86-89m. Harry F. Johnson graduates this year in the engineering department of the U. of M. and will return at once to his work with the U. S. Lake Survey. He has leave of absence for the purpose of completing his work in the university.

'86-'87. W. W. Kreamer, a student at M. A. C. during '86-'87, is a chemist at Sunfield, Mich.

'86-93. Born to Professor and Mrs. Philip B. Woodworth of Chicago, on April 13, a son.

'91. Prof. Frederick W. Mumford of the University of Illinois made the College a flying visit Thursday.

'92. Leander Burnett, is assistant to the electrician for the Pennsylvania R. R. with headquarters at Pittsburgh. His address is Avalon Pa.

'94. The *Michigan Alumnus* for April stated that C. C. Pashby is a civil engineer in the city engineer's office at Memphis, Tenn.

'94-95. Tomorrow (Wednesday) evening, takes place the wedding of William Curtis McLean to Marguerite Scranton. The ceremony will be in Lansing. Mr. Henry F. Lake, '95, will be best man.

'95. R. R. Marble graduates this year from the medical department of the U. of M. He recently won first prize, a ten-dollar gold piece for best set of drawings in the class in pathology—125 in the class. He says the real winner was Professor Holdsworth, under whom he acquired the art.

'97m. C. L. Dean is Drafting for the Structural Department Illinois Steel Co. Address 50 Wabash Ave., Chicago Ill. Mr. Dean has been with his present employer about a month.

'98-00s. W. L. Watling is chemist for the North Western Fertilizing Co., Chicago. He visited the College a short time ago while on his way from Ducktown, Tenn. to Chicago.

'01m. W. J. Bailey addressed the military companies during drill Wednesday afternoon.

'01m. J. G. Aldrich has resigned his position with the Page Fence Co. to accept a better position with the Detroit Shipbuilding Co. His present address is, 1055 Wabash Ave., Detroit.

'01. Hugh Baker of the Bureau of Forestry, Washington, D. C., spent two days last week at M. A. C. visiting his brothers Fred and Ray. He will spend the remainder of his absence leave with his parents at St. Croix Falls, Wis., after which he will go to Washington State for work in forestry along the Columbia river.

THE M. A. C. RECORD.

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

EDITORS.

T. H. STEVENS, MANAGING EDITOR.

ASSOCIATE EDITORS:

J. G. MOORE, '00.

W. R. WRIGHT, '03.

H. G. DRISKELL, '02.

JOSEPH P. HAFTSCAMP, '05.

E. S. GOOD, '03.

H. N. HORNBECK, '04.

F. D. STEVENS, '03.

KATHERINE SLAUGHT, '04.

GRACE LUNDY, Sp.

O. L. AYRS, '02.

Subscription, - - - 50 cents per year.

Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich. Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, APRIL 22, 1902.

NOW that the lecture course is over we wonder what the college community really pronounced it to be—a success or not.

That such a series of entertainments shall be a success depends upon two conditions. (1) The community must be in a receptive mood, and (2) it must get something for its money. Judging from these two conditions we may say that the lecture course has given to the majority of the college people, what they wanted, and offered to the minority what they needed.

To this minority a few points might be mentioned that would work for the better success of the Club another season. (1) That the venture is not a money making scheme. This is evident from the fact that the Club is again unable to meet all expenses and must carry over a small debt to the next season. (2) No one is asked to donate. Something is really given you for your money. With these points in mind it would hardly seem that any one with a proper idea of a college education, would allow a dollar to stand in the way of coming in touch with the great thinkers of the country.

We hope that every one will have a hand in making next season's course a success.

BIOGRAPHICAL NOTE.

The *Toledo Blade* for April 14 has the following sketch of Mrs. Sarah L. Williams, wife of the first president of M. A. C.:

Mrs. Sarah R. L. Williams, one of the pioneers of Toledo, died Saturday afternoon at 4 o'clock at the residence of her daughter, Mrs. Rebecca W. Cooper. Mrs. Williams had just passed her eightieth birthday and for nearly 50 years had been prominently identified with the city of Toledo. She was the widow of the late Joseph R. Williams, who was proprietor and editor of the *Toledo Blade* many years ago, and up to the time of his death in 1861 was one of the foremost public men in Ohio and Michigan. A leader in the Whig party and twice the candidate of that party for the United

States senate against Lewis Cass, he was with Zach Chandler and Jacob M. Howard one of the founders of the Republican party in Michigan, and was the president of the state senate at the time of his death, just after the outbreak of the war in 1861. After the death of Mr. Williams his widow returned to Toledo and was herself prominently identified with public affairs in this city up to within a few years ago. For a number of years she was one of the proprietors and editors of the *Sunday Journal*; she was the founder and for a great many years the editor of *The Ballot Box*, a paper devoted to the cause of women's suffrage, which is still being published in Rochester, and is the official organ of the cause which it represents. An intimate friend of Elizabeth Cady Stanton and Susan B. Anthony, she was one of the incorporators of Toledo Woman's Suffrage association, and for a great many years was its president; she was also one of the founders of the New Century club more than 25 years ago, and was one of the original trustees of the Toledo University of Arts and Trades under bequest of Jessup W. Scott.

Mrs. Williams was a woman of great intellectual force and a powerful writer on all public questions. She was born April 3, 1822, in Portsmouth, N. H., the daughter of John Langdon, being the seventh successive generation born in that city. She was grand niece of John Langdon, revolutionary governor of New Hampshire and the first president of the United States senate. In 1835 she removed with her parents to Buffalo, and on May 3, 1844, was married to Joseph R. Williams, and moved with him to Constantine, Mich. In 1853 they came to Toledo, and 1856 removed to Lansing, Mich., upon the election of Mr. Williams as first president of the State Agricultural College.

During the war she devoted herself to the cause of the union and gave generously of her time and means to the assistance of the union soldiers. She volunteered herself as a nurse and went to the front to take care of the wounded. During her entire life she was ever ready to devote her wonderful energy to the cause of humanity oppressed, in whatever guise it appealed to her sympathy. She was a devoted wife, a fond and careful mother and a true friend. Mrs. Williams had three daughters, two of whom survive.

INTER-COLLEGIATE
COMMITTEE MEETING.

The Executive of the Inter-Collegiate Live Stock Association met at the College on the afternoon of Friday, April 18th. All the officers were present, viz., G. E. Day of Ontario, W. L. Carlyle of Wisconsin, J. H. Skinner of Illinois, and J. J. Ferguson, Michigan.

In view of the very strong sentiment growing out of the two student judging contests which have been held at Chicago, the committee had a very serious problem to face. From certain colleges there had come very decided opposition towards the holding of another contest. Two colleges which competed last year declined to again enter. The association was primarily designed to serve as a bond of union between the different institutions of the country. The rivalry resulting has proved slightly stronger than

was anticipated so that after very careful deliberation the committee decided that looking towards best interests of the different colleges, it would be well to omit all competitive features from the working of the association.

It was decided that henceforth the object should be to encourage the making of educational exhibits by colleges and stations and the holding of conferences at which men eminent in animal husbandry lines would be asked to give their experience with that special department of the work which they had mastered.

In this way it is thought that great good will result not only to instructors but to the student body as well. At many of the institutions the judging contest has been made the goal instead of being merely incidental. Students were thus lead to see only the spectacular side of the work losing sight almost entirely of its educational and commercial value.

In view of the initial conference of the association to be held at Chicago in December a provisional program was drawn up carrying the names of several of the leading animal husbandry experts of the country.

The visiting members of the committee were very warm in their expression of approval of what they were able to see of the different departments of our institution and especially of her equipment for work along agricultural lines.

Signed, J. J. FERGUSON,
Sec.-Treas.

The Botanical Club held its first regular meeting Tuesday evening. President Sevey in his address pointed out the objects of the club, its defects, the methods to be used to create an interest in the club. He said that it is a sad fact that the club has been losing in its attendance although the College has been growing in size. He attributed this to the lack of interesting programs and to presenting article too technical for the student body.

Mr. R. S. Brown followed with a talk on "The structure of wood."

He showed drawings showing the difference in different kinds of maples including the box elder (*Acer Negundo*). The wood of broad leaved trees is composed of three elements viz: Pitted ducts running lengthwise of the tree; Parenchyma some length-wise and some crosswise and, wood fibers, long slender fibers. The weight of the wood depends largely upon the thickness of the walls of these fibers.

As the wood grows older the pitted vessels become continuous tubes.

Mr. M. Craig reported the names of the different flowers which he had seen in bloom this spring.

The meeting next Tuesday night will be held in the Botanical Garden where a study of the arrangement of the different families of plants will be made.

The union meeting of the Y. W. and Y. M. C. A. Sunday evening was led by Miss Sims, State secretary of the Y. W. C. A. Lesson read, Matthew 23:1-13. Theme, "One is your master even Christ." Miss Sims gave a very interesting talk on the above theme, showing that to serve Jesus means much: first we must love him supremely—he must be the idol of our affection; then it will be an easy matter to do his good pleasure. We cannot serve two masters, for "either we will love the one and hate the other, or else we will hold to the one and despise the other." Only the life hid with Christ in God can serve Jesus in spirit and in truth.

The program of the Horticultural Club Wednesday night consisted of a talk by President F. W. Owen on some special work with spraying substances.

Mr. Owen said that the value of a spraying substance depended largely upon its physical structure. Also upon the amount of free Arsenious Acid and the time it would remain in suspension.

He stated that by means of his work he had arrived at the conclusion that spraying substances with particles of much smaller dimensions would favor.

First Economy (a) in the manufacture, especially of paris green. (b) In original cost to sprayer. (c) Less bulk required for a given area to be covered. (d) In application, by lessening the required agitation and trouble from clogged machinery.

Second Effectiveness: (a) Longer suspension insures greater uniformity in strength of film. (b) Smaller particles insures more complete distribution of poison for a given amount.

Secretary and Mrs. Bird and Prof. and Mrs. Holdsworth pleasantly entertained a number of their College and Lansing friends at a reception Friday evening. During the evening Mrs. U. P. Hedrick sang several solos. Ice cream and cake were served.

Your Attention Ladies!



We are catering to the wants of those who are looking for high grade goods at their intrinsic value. We are headquarters for...

BRAINERD & ARMSTRONG'S
SILKS—The Best.

Filo Floss, Roman Floss, Wash Twist, Rope Silk, Purse Twist, Knitting Silk, Pemey Embroidery Twist.

COLUMBIA YARNS
The Best.

Shetland Floss, Shetland Wool, Germantown and Saxony.

Mountings for Purses—Steel Beads, Gold Beads, Jet Beads, Turquoise Beads.

Our line of Chatelaine Steel and Metal Bags is the finest. Do not be satisfied until you see them. Send your orders to the

Donsereaux Clothing & Grocery Co.

Our big wagon passes your door daily. Your orders carefully filled.

ABOUT THE CAMPUS.

The track team organized Saturday afternoon.

A group picture was taken of the instructors Saturday.

Mr. E. S. Harrison, '02, of Detroit is spending a few days with College friends.

The new gray baseball uniforms were used for the first time in the U. of M. game.

Bronson Barlow, with '00, will assist in the experiment station work until September.

Miss Mary Smith, '03, received a visit last week from her mother, who lives in Gaylord.

Miss Hinman entertained her friend, Mr. Sidney Liddell, of Milford one day last week.

A recent order of apparatus of considerable value has come to the Physics department and is now in use.

Alice Hadley, '03, and Gertrude Van Loo, '02, were in Olivet over Sunday visiting Miss Hadley's sister.

Major Vernou was summoned to Detroit Wednesday to act as a witness before a court-martial at Fort Wayne.

Prof. and Mrs. Marshall entertained several members of the faculty at six o'clock dinner Thursday evening.

Dr. Kedzie received an invitation to the reception given last evening in New York City to Lord and Lady Kelvin by Columbia University.

Prof. and Mrs. C. D. Smith spent yesterday in Detroit.

The Feronians had a gentleman's night Saturday evening.

Prof. Wheeler has been receiving inquiries for men in the U. S. Department of Agriculture.

Florence Hedges, with '01, visited College friends last week, during the Ann Arbor vacation.

E. S. Brewer who entered with '03, but now of the U. of M., visited the College on Saturday.

The Botanical department received last week its supply of herb-arium paper for the year.

E. E. Griffith, '04m, received a visit one day last week from his father Prof. E. L. Griffith.

Prof. Taft has designated the tennis court southeast of the Women's Building for the use of the girls.

J. A. Dunford, N. B. Horton, M. B. Stevens, and E. I. Dail, seniors, are taking work in cheese making this term.

Malcolm Madden, a senior dental student at the U. of M. visited with G. D. Francisco last week and took in the game.

The Experiment Station sent out last week five hundred pounds of beet seeds to points scattered over the Upper Peninsula.

M. A. Porter, with the class of '79, visited the College last week, his visit being the first one in fifteen years. Mr. Porter lives in Northville.

Fire ran through a part of the woods in No. 7 Sunday.

Dunford, '03, is entertaining a sister from Grand Rapids.

George F. Smith, with '03m, visited M. A. C. Friday. He is a draughtsman at Greenville.

E. S. Harrison, with '02, returned to the college a few days last week. He has been draughting in Detroit.

Guy S. Covell, '02, has been appointed a Cadet at West Point by Col. R. B. Bishop, Representative of the 9th District.

The mulch has been taken from the plants in the botanic garden and the plants are found to have wintered unusually well.

The extreme east end of the College farm, near the evergreen plot will shortly be planted with trees suitable for river bottoms.

The lawns and flower plots around the College have all been put in shape the past week and the campus presents a good appearance.

The Sub. Freshmen played the Seniors a husky game of base ball Saturday afternoon. The final score was 3 to 2 in favor of the Sub. Freshmen.

The Union Literary Society were entertained Saturday evening by a Stereopticon lecture on Yellow Stone Park, given by Fred Baker.

Miss Sims, state Y. W. C. A. secretary, spent several days at M. A. C. last week. Her talk before the Thursday evening meeting was much enjoyed.

I. J. Van Skiver will captain the junior ball team this spring.

The M. A. C. district school is planning to celebrate Arbor Day.

Prof. and Mrs. Babcock are receiving a visit from Prof. Babcock's sister.

The mechanical graduates this year at M. A. C. will equal in number the graduates from the mechanical department of almost any other institution in the country.

Rolla L. Bigelow, '01, of the Engineering Department, Pere Marquette R. R. called on friends at the College Saturday and Sunday.

The puppy that received the \$300 trophy was not raised by the farm department as stated last week, but by Mr. Harrison, the herdsman.

Owing to the large number of students electing senior Physics 4, it has been necessary for the class to meet for two of its weekly recitations in the Botanical building.

The orators to represent the different courses at commencement are: Agricultural course, D. S. Bullock; mechanical course, W. R. Sheed; woman's course, Marguerite A. Nolan.

The Thursday evening prayer meeting was led by A. B. Rogers. Theme, "Our obedience to Christ." The first duty of a soldier is obedience," so the Christian's first duty is obedience, for it is only by disobedience that we lose the blessings promised. We cannot be true disciples and willfully or carelessly disobey our master.

(Continued on page four.)

NORTON'S HARDWARE

DO YOU WANT

SCREEN DOORS

SCREEN WINDOWS

LAWN MOWERS

GARDEN HOSE

GASOLINE STOVES

REFRIGERATORS

POULTRY NETTING

COME TO US

WE'LL TREAT YOU RIGHT

Norton's Hardware

Furniture...

Headquarters

COMPLETE LINE OF
FURNITURE FOR
STUDENTS' ROOMS

Canvas Cots at 95c. Woven Wire Cots at \$1.50. Woven Wire Springs at \$1.50, \$2.00, and \$2.50. Mattresses at \$2.00, \$2.50 and \$3.00. Tables at \$1.50 and \$1.35. Chairs at 50c up.

All goods delivered
to your room free.

M. J. & B. M. Buck.



IMPERIAL

This cut represents the
IMPERIAL HAT, one of
the best three-dollar hats
made.

Carry complete lines of Spalding's Sweaters, Supporters, Sleeveless Shirts, Running Pants, Military Gloves.

Students patronage Solicited.

Elgin Mifflin.

Simons Dry Goods Co's OPENING SPRING SALE

OF

WASH GOODS, EMBROIDERIES, WHITE GOODS,
LACES, AND MUSLIN UNDERWEAR,

New Spring Line of

CARPETS AND RUGS

Simons Dry Goods Co.

"A Patent Leather Shoe
That Wont Break Through."

We Have 'Em - You Want 'Em.



We are showing the Finest Line of Oxfords for men ever seen in this City, in Box Calf, Vici Kid and Patent Leathers "that wont break through" with reasonable service.

At \$3.00, \$3.50 and \$4.00 a Pair.

C. D. WOODBURY, HOLLISTER BLOCK.

ABOUT THE CAMPUS.

(Continued from page three)

Mr. Lemuel G. Holbrook has been employed to assist in the Physical Laboratory during this term. Mr. Holbrook is a graduate of the U. of M. and has also taken considerable extra work in mathematics and physics.

J. A. Cooper, '03, entertained his brother and E. S. Brewer, with '03, over Sunday. Both gentlemen were on their way to Ann Arbor for the spring term's work at the University. Both attended the Olympic party Saturday night.

A. J. Decker, '02m, now with the Brown Hoisting Company, writes an interesting letter from Cleveland. Among other things he says: "The work I like best is the descriptive geometry I use in making development of plates."

I. Gingrich arrived at the College Monday morning from his home in South Bend Ind. He will remain at the College a few days during which time he will ship several flats of carnation cuttings to the South Bend Carnation Co. of which he is manager.

The following note is interesting as showing the growth of the College. Five years ago there were five sections of from three to four men each that worked in the mechanical laboratory of an afternoon, this year there are six sections of from five to six men each.

The diplomas have come to the College from the Pan American directors for exhibits made by the College. One diploma announces a gold medal for models of fruit in wax, two diplomas announce silver medals for seeds and grains and collective exhibit of fruits, and the last two diplomas give honorable mention for potatoes and for 85 varieties of tomatoes.

The mechanical department has been increasing its equipment by the addition of accurate thermometers, gauges, indicators, planimeters, and meters. Besides these instruments, a five horse power gasoline engine was added some time ago, Bates & Edmonds of Lansing being the manufacturers. The company made a generous reduction in price to the department.

The freshman contest in the Columbian Society was held Saturday evening. The three contestants having the highest rank, in order are V. R. Gardner, C. L. Poole and C. D. Sterling. Two prizes were awarded, first, a society pin, second, a copy of Longfellow's poems. The judges for the evening were Prof. Wheeler, Prof. Ferguson and Mr. Wells.

The results of the practical determination of the fuel values of kerosene, alcohol, gasoline and electricity as cooking agents, made by the sophomore women in physics 3 last term, shows gasoline to be the cheapest fuel, at an average cost of .063 cents per hundred thousand calories. Next comes kerosene at .096 cents per hundred thousand calories. Alcohol is expensive; 2.907 cents per hundred thousand. Electricity, the neatest and most convenient agent, costs .454 cents per hundred thousand calories.

Pat O'dea of University of Wisconsin football fame will coach the University of Missouri next fall.

Chapel services Sunday morning were conducted by Rev. L. B. Bisel, pastor of the Franklin street Presbyterian church, Lansing. Text, "The grace of Jesus Christ maketh thee strong." Who would be a weakling in any thing? The Christian needs to be strong and courageous. The world needs strong men who dare stand for the right at all times and under all circumstances. This is the Christian's duty and privilege for his strength cometh from above. If we will only let Jesus dominate our lives they will be strong for the right. We will then be of the greatest value to the world.

THE COLTON LECTURE.

The last of the entertainments provided by the M. A. C. entertainment club for the season of 1901-02 was a lecture given Friday evening by Prof. Colton of the U. of M. on "The Moon in Fact and Fancy."

Prof. Colton's lecture, which was very interesting and instructive, was illustrated by one hundred stereopticon views; almost entirely views taken by himself, with the aid of the largest telescope in the world, that in Lick's Observatory, with which institution Prof. Colton was connected for several years.

As an introduction to the lecture, a number of more or less erroneous ideas and myths concerning the moon were dealt with. The existence of the so-called "man in the moon" was explained, also the idea relating to the effect of the moon on the rainfall, upon which the nursery rhyme of "Jack and Jill" had its foundation.

The composition of the moon is not known, but the supposition is that it is quite similar to that of the earth. As for the existence of life on the moon, three reasons were given why, in all probability, there is none. First, the low temperature—two hundred degrees below zero—would make life impossible; second, there is no atmosphere surrounding the moon as there is the earth; and third, the moon cooled so rapidly that the existence of any animal life has never been possible.

The moon has no warmth of its own and what heat rays fall upon its surface during the two weeks in which the sun shines on one side of it, are reflected back into space, because there is no atmosphere to act as a trap to hold it.

In the views, objects which were five hundred feet across were large enough to be perceptible. The vast volcanoes, ranges of mountains and large plains, usually called lakes, because thought to contain water, were plainly seen. Though somewhat long, those who heard the lecture were well pleased.

Officers For Horticultural And Debating Clubs.

HORTICULTURAL CLUB.

F. W. Owen, '02, Pres.
J. G. Moore, '03, Vice Pres.
R. G. Thomas, '03, Sec.
R. G. Thomas, '03, Treas.

DEBATING CLUB.

L. D. Rudolph, '02, Pres.
A. C. Miller, '03, Vice Pres.
J. G. Moore, '03, Sec.
J. G. Moore, '03, Treas.
F. N. Smith, '04, Record Editor.
Prof. W. O. Hedrick, Critic.
Mr. Gunson,
Instructor Severance, Program Com.
W. K. Wonders, '02,

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.

Jewett & Knapp,

222, 224 Washington Ave. S.

Lansing, Mich.

When in need of

FINE STATIONERY, INVITATIONS
or CARDS

CALL ON

Lawrence & Van Buren Printing Co.

122 Ottawa St. E.

Lansing Mich.

DIRECTORY

LANSING BUSINESS and
PROFESSIONAL MEN

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

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.

BOOKS AND STATIONERY.

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

CITY BOOK STORE, Fountain Pens, Drafting Tools, Stationery, Cards, Engraved, Pictures and Picture Framing. Tennis, Football and Baseball goods. Crotty Bros., 200 Wash. Ave. N.

BOOK BINDERS

GEO. G. BLUDEAU & CO Book-binding of every description done neatly and promptly. 100 Wash. Ave. N.

BOOTS AND SHOES.

C. D. WOODBURY.—Boots and Shoes. We shoe the students. See ad.

CONFECTIONERY.

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

CLOTHING.

H. KOSITCHKE & BRO.—Clothing and Dry Goods, 113 Wash. Ave. N. 210 Wash. Ave. S.

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

CROCKERY AND GLASSWARE.

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

DENTISTS.

L. PARKER GEORGE, D. D. S. Whitney Building, corner Wash. and Mich. Aves., Lansing.

D. E. PARMELEE—Dentist, 218 Washington Ave. S. Phone, Bell 520 office, residence 732.

J. E. STOFFER, A. B., D. D. S. Office 109 Washington Ave. S. Former M. A. C. student.

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

DRUGGISTS.

ROUSER'S CAPITAL DRUG STORE. Up to date. Corner store. Opposite Hollister Block.

ROBINSON DRUG CO., successors to Alsdorf & Son, Drugs and Druggists' Sundries, 102 Washington Ave. N.

DRY GOODS.

SIMONS DRY GOODS COMPANY.—Dry Goods and Carpets. See ad.

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

THE JEWETT & KNAPP STORE. Dry Goods. 222-224 Washington Ave. S.

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.

GOTTLIEB REUTTER.

Washington Ave. South.

FURNISHING GOODS.

ELGIN MIFFLIN.—Ladies' and Gentlemen's Furnishing Goods. See ad.

FURNITURE DEALERS.

M. J. & B. M. BUCK.—Furniture. Cor. Washington Avenue and Ionia Street. See ad.

HACK AND BAGGAGE LINES.

ORDER your hacks for parties at Carr's Hack Line. Livery in connection. 410 Washington Ave. N.

HARDWARE, STOVES AND TINWARE.

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

NORTON'S HARDWARE.—General Hardware, Stoves, Tinware, Graniteware, Cutlery, etc. 111 Washington Ave. South. See ad.

INSURANCE.

THE DYER-JENISON-BARRY CO., LTD., (Incorporated) Hollister Block. All kinds of the best insurance. Strongest agency in city.

JEWELERS.

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

B. P. RICHMOND—Watchmaker, Jeweler and Engraver. 200-202 Washington Avenue N.

MANICURE AND HAIRDRESSING.

MRS. O. T. CASE—Manicure and Hairdressing Parlors. Masquerade wigs for rent. Switches made of cut hair or combings. New 'phone 118, 222½ Washington Avenue S., up stairs.

MERCHANT TAILORS.

WOODBURY & SAVAGE.—Tailors. Student trade solicited. Opposite Hotel Downey, North.

JOHN HERRMANN'S SONS, 218 Washington Avenue N.

MUSIC, PIANOS, ETC.

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

OCULISTS.

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

PHOTOGRAPHS.

C. E. WALTER, M. A. C. I make Photographs; Landscapes, Buildings, Interiors, Flash-lights, Lantern Slides, Transparencies, Medallions and Stereoscopic Views. Developing and Printing for Amateurs. Views for sale.

PHYSICIANS.

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.

PLUMBERS.

SHIELDS & LEADLEY, Plumbing and Heating. 300 Wash. Ave. N., Lansing. Both Phones.

SPORTING GOODS.

J. H. LARRABEE. Base Ball Goods, Foot Ball Goods, Tennis, Golf, Guns, Ammunition and Fishing Tackle. 325 Wash. Ave. S.