The New Departure.

All former students and friends of the Agricultural College will no doubt take a lively interest in the recent success of the newly established Women's Course and in the changes rendered necessary by the introduction of this course. The most apparent change that will be noticed is that two rooms will be seen in place of one, and the window space increased about the campus. There are at present thirty-two lady-students, and instead of an occasional solitary female, we have a roomful of them. The change is under way. Everything is being done for their comfort and making their course a pleasant and profitable one.

All former students might well remember the late Abbott Hall and the old long tables formerly used, and the little rooms they used to work in. All of these rooms have been newly papered, the floors painted and other woodwork oiled, for the use of lady-students. Each room is furnished with two white iron bedsides with springs and mattresses, a commode, dresser, table set, and chairs. Other furnishings, such as carpets, rugs, bedding, curtains, pictures, etc., are supplied by the occupants of the rooms.

But the greatest change that has come over Abbott Hall is in the size of the rooms. A piano will soon be added for the use of those who take music and who already play. The first room at the left of the entrance is reserved for the use of the professed Edith McDermott, and has been papered and painted similar to the parlors. The remainder of the rooms have been neatly finished, and will be used for the music room below. The dining room also has been unrolled, and the old long tables formerly used, and the little rooms they used to work in. All of these rooms have been newly papered, the floors painted and other woodwork oiled, for the use of lady-students. Each room is furnished with two white iron bedsides with springs and mattresses, a commode, dresser, table set, and chairs. Other furnishings, such as carpets, rugs, bedding, curtains, pictures, etc., are supplied by the occupants of the rooms.

The building is supplied with electrical appliances, bells connecting the kitchens and dining room and matron's room, which, together with the parlors and halls are all lighted with electric light. New halls will be fitted up in the basement. Outside: a new stone walk has been laid from the north entrance to the old walk; the drive around the north end of the building has been sodded over, and the front drive has been narrowed by sodding a strip about ten feet wide in the old building. Considerable of the building on the south end has also been sodded over, all of which makes the surroundings much more attractive than formerly.

The Women's Course will follow the general plan of the Agricultural Course. Agriculture, farm work, drill, and a few other things will be given in the Agricultural Course will be omitted, and in their stead cooking, canning, advanced drawing and painting, German, French, music, horticulture, kitchen gardening, domestic economy and art will be given. The entire course will be made as attractive and practical as the abundant resources of the College and the experience of the professed Edith McDermott's thorough training along the lines of domestic economy and household science, first as a student of the Cornell Expedition, and afterward in charge of this department of work in a large industrial school, gives assurance of the successful carrying forward of the work. The course began this year under such auspicious circumstances.

Y. M. C. A. Reception.

The annual reception of the Y. M. C. A. to the increasing class will be held in the room of the association on first floor of Williams hall, next Friday evening. A large number of ladies has been arranged, which will be interspersed with games. A cordial invitation is extended to the whole college to come there and see it out and improve this opportunity to get acquainted.

One morning at breakfast in the Stanton house the campers were struggling with tough vegetable, when one of the boys remarked that that real must have been a three-year-old. One of the girls innocently inquired, "Would that make any difference?"

Lieutenant Bandolitz.

Lieutenant Harry H. Bandolitz, the recently appointed professor of military science and tactics in the College, was born in the village of Constantia, New York, June 26, 1861. He entered West Point military academy in 1880, receiving his appointment through Congressman W. A. Stoddard of New York. He was the successor of Lieutenant Simpson from the same Michigan district, and at West Point was in the same cadet company with Lieutenant Luce. Immediately upon graduation, in 1889, Lieutenant Bandolitz was stationed at Ft. Thomas, Kentucky, where, however, he remained but a short time, being transferred to the Cadet Barracks at West Point in September, 1890, and was sent to Fort Ellicott City, near Havre de Grace, Md., where he remained for a year and a half. He was then returned for a year to Ft. Thomas. In the summer of 1893 he was on duty at Mt. Vernon Barracks near Mobile, Alabama. Here he had charge of some Indian prisoners of war, including Georcinan's band of Apaches and other Indians. He also commanded while at this station of a company of Indian soldiers in the regular army. He was next ordered to attend a rifle competition of the Depart-
results during the current winter. To perfect organi­
make operative the best system for conducting these
that these efforts have been crowned with success
sixty-eight Institutes held during the season, and the
Rapids. The money thus invested by the State will
of education that cannot but net a handsome return.
by calling at the secretary's office; also a silver pencil
holder, which is now in the possession of Mr. Crosby.
theories, but they deal with practical problems that
week. He brought with him a cousin, Miss Bristol,
white Clawson giving the best returns.
occupied by Prof, and Mrs. Chamberlain.

AT THE COLLEGE.
The seniors are finishing the work begun last spring.
George F. Richardson, '97, has a brother in the close
Hon. C. W. Garfield spent Friday of last week at the
college. The money thus invested by the State will
of education that cannot but net a handsome return.

ANOTHER SECTION OF THE SOPHOMORIE.
The Feroninas held their first meeting of the year
in the parlors of Abbot Hall last Friday afternoon.
Vadim Sobo-rinnikoff is making a collection of Ameri­
cans who are now engaged in the silk industry, and
was taken by Messrs. Farnsworth and Counter of Ohio and W. S. and Ben­

LIVE STOCK AT THE STATE FAIR.
H. W. MUMFORD.
It is perhaps safe to say that there is not an Agricul­
tural Fair, either county, district or state, where the question of live stock being injured for breeding purposes by fitting them for exhibition is not raised. The average farmer who visits the Fair to see the best breeding animals for the sake of successfully com­peting with the large and wealthy breeders, so be not rest content with leaving his stock at home, or if he takes it to the Fair he must be willing to be subject to more or less humiliation and embarrass­
ment from those individuals who do not understand the circumstances involved.

The question always arises as to the advisability cited by the cultivators of a separate "breeding con­dition" for this class of animals. This condition would develop which are now not generally ap­preciated by the cultivators of a separate "breeding con­dition class" of animals; that breeders' ideas, in regard to the proper flesh or condition an animal should bear in for breeding purposes varies greatly among breeds. This condition should happen to meet with their stock at a Fair, the man who believed in having stock in good flesh for breeding purposes would decline to carry away the premiums. It appears to the writer that there is a necessary rule only, to allow the exhibitors the privilege of making their stock as neat and attractive as possible, the custom which now prevails throughout the United

The big sheep market of this year is the Essex, with the New Hamp­shire. Here again one breed was present in greatest
was rather superior to former exhibits. Several Royal
were there in considerable numbers. The quality was
sheep has never been seen at a Michi­

The swine classes were generally filled. Berkshire­
Pakola China, Essex, Yorkshire, Victoria. Duorc J er­

FRUIT AT THE STATE FAIR.
PROF. L. R. TAPP.
The exhibit in the fruit and floral hall was admitted by all to be the fullest in the history of the society. Not only did it occupy nearly the entire space pre­
quilied in previous years but the fruit was large in size, unusually high colored and free from scab and mildew. Until this year the fruit department at the West Michigan Christian was represented by the Chicago & West

Miss Lucy Moore, daughter of Hon. C. J. Monroe
and Miss Hattie Chase, sister to Albert B. Chase, '95, and taking the woman's
course.

Another section of the sophomoriers are studying
farm machinery, beginning with the tools used in cul­
vation and ending with windmills, and harvesting ma­
machine later.

About forty varieties of wheat were sown by the
farm last week in small plots in field No. 6. Among
them are varieties from France, Germany, Russia, Japan and Australia.

There may now be seen in field No. 9 upon the col­
lege farm a crop of clover hay being cut upon land
from which white clover was obtained earlier in the
season. The clover seed was sown last March.

The exhibit of the farm department at the state fair consisted entirely of wheat, over 100 varieties being shown. The exhibition, especially the two new varieties, Rich Pothest and Golden Chaff.
The freshmen spend their student labor hours in judging Every county has a stock of Shorthorns, and, and before the close of the term will have gone through all of the principal breeds of horses, cattle, sheep and swine.
The experiment station has sold its entire crop of Golden Chaff wheat, about 250 bushels, for seed, and
has been unable to fill all its orders. There appears to be an unusual demand for improved wheats in Michigan this fall.
Spring sown crimson clover has done unusually well this season, the abundant rains having kept it grow­ing all summer. One of the finest sights on the college

Douglas Gebhart of Hart.

and Galloways. The general purpose Red Polled was

M. C. A. RECORD.
September 22, 1896.

S. R. Young, '96, spent a few days at M. C. A. last week. He brought with him a cousin, Miss Bristol, who has been visiting at the college. While there, Dr. H. W. Mumford, visited his brother at M. C. A. last Thursday.
Mr. and Mrs. Westcott now occupy the suite of rooms on first floor of the Terrace that were formerly occupied by Prof. and Mrs. Chamberlin.
The result of growing wheat on much this year at the college was the same as last year, Golden Chaff
and while White Clawson giving the best returns.
The old tie-stalls in the west side of the cow stalls have been all taken down, while the new tie-stalls are being done by two juries, Mayes and Townsend.
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Found: A fountain pen, which the owner can have by calling at the secretary's office; also a silver pencil holder, which is now in the possession of Mr. Crosby.

Mrs. F. R. Moore, daughter of Margaret Marega, have been visiting at Prof. Smith's for several days. Everybody says little Margaret is the sweetest baby in Kans­
September 22, 1866.

THE M. A. C. RECORD.

The Horticultural department of the College occupied a square of 81x81 feet on the campus, and a fruitful yield of fruit from the College orchards and from the South Haven substation. About 300 plates were shown, including about sixty each of peaches and grapes, a large quantity of plums and prunes of the remainder apples, including nearly thirty varieties of crab. The collection contained many new sorts that have been introduced among the fruits in attendance at the fair an opportunity of inspecting them and judging of their merits. The exhibit was in charge of Mr. Dean who also assisted the judges in this department.

The show of flowers and plants was quite large and contained many fine specimens. It was mainly by the flowers of Grand Rapids.

In one corner of the building was a large exhibit of honey, bees, and apparatus for handling the collection.

**Horticultural Department.**

**THE LEWIS INSTITUTE.**

The following from the *Inter Press* will be of interest, as it refers to the institution to which Prof. C. F. W. Wheeler is called.

"The West Side will be more attractive than ever to heads of families after Thursday next. On the evening of that day the students in residence at Major Lewis's Washington's farewell address will be celebrated by the dedication of the Lewis Institute. This magnificent place of education is the outcome of a bequest of $550,000 by the late Allen G. Lewis, who died in 1877. Eighteen years of careful management by business-like trustees increased the value of the property to $1,500,000. The educational building that exists on Madison street from Washington avenue to Ralston street was laid Thursday. on a generous and well cared for. The cow stables were healthy and the hygiene condition of the cows good. The results have been above average, and well cared for. The cows stables were healthy and the hygiene condition of the cows good. The results have been above average, and well cared for.

**CIVIL SERVICE EXAMINATIONS.**

"The following letter comes rather late but may not be seen but a few hours before your graduates, as no definite date for the examinations is mentioned."

"Department of the Interior, Office of Superintendent of the United States. Washington, D.C. Sept. 30, 1866. Dear Sir;—At last I have succeeded in establishing the position of "Teacher of industries," for which I have graduated in manual training and agricultural schools—persons who have a practical knowledge of farming and the use of the carpenter's and blacksmith's tools, and who can instruct in small classes in ordinary manual training work, possess of good habits and plenty of common sense. The Civil Service Law requires us to hold an examination about the middle of September in places convenient to applicants. I write you in the hope that you will forward copies of a number of graduates of your institution, and request them to make application at once. The salaries vary from $720 to $1000 per annum. Quarterly, Eight, and fire are furnished in cases, and their board in school must rarely reach $250 per week.

"Thanking you in advance for whatever assistance you may give in the way of information."

W. N. Hallman, Sup't. Indiana Schools.

**BACTERIOLOGICAL WORK.**

Prof. C. D. Smith.

"The bacteriological work of the station was carried on by the Board in order primarily that we might take advantage of the opportunity of the work as afforded by the discovery of tuberculosis in the College herd, to study various phases of this dread disease as it develops and is communicated. It has been studied, pure cultures produced, and inoculated into the milk with the results that the disease develops in the treated animals. They have their eyes open and are ready to investigate other questions and opportunities in this direction.

One morning one of the cows was found to have a cough. The bacteriologist was notified and samples of the milk taken. A biological examination revealed the presence of a pure culture of the disease, a pure culture of which introduced into the udder of a healthy cow produced the characteristic inflammation. In other cases of induced infection this germ has been found present.

A milk man in Lansing found the milk of his cows very on a recent morning, the cause being entirely unknown. Two cows were and the milk was well cared for. The cows stables were healthy and the hygiene condition of the cows good. The results have been above average, and well cared for."

**Priority of Women as Students.**

Rochelle College, founded seventeen years ago and known as the Harvard Annex has now become an independent institution. The announcement of Rochelle, President Elliott said:

"You will soon see, as you listen to the degrees about to be conferred, that the number of men grows with distinction is large. The proportion of such degrees in Rochelle is much larger than in Harvard College; and this phenomenon is observable in all places where men and women, or boys and girls, are brought into competition under the same teachers and with the same examination papers. It is seen in England, France, and Germany; in the very highest examinations in the lower, women have reaped large successes. We know now that in power of acquisition, and in that every side, skill and efficiency, we are much needed for the rapid production of good answers to an examination paper, girls and women on the average have the advantage they need for years, and will continue to do it. We observe in Harvard University that when prize competes with guilt and Harvard, the young women get an entire proportion of prizes. These facts teach more than appears on the surface. People say that this superiority is the result of studies and more strenuous application, a stronger, and more precise. It may be due to retentive memory, patience, a higher degree of conscientiousness, and thoroughness. The young women are here by the 2/20 observation, accuracy, and power of clear expression for far in expression, I once was not.

"There is every reason, therefore, for the profoundest and sincerest encouragement and hopefulness about the thorough education of women."
The M. A. C. Record.

PUBLISHED WEEKLY BY THE
MICHIGAN AGRICULTURAL COLLEGE
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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 are requested not to take the paper from the post-offices for no charge will be made for it. The only way, however, to secure the Record regularly is to subscribe.

THE OPENING OF THE COLLEGE YEAR.

We are greatly pleased with the way the college year has opened. From every point of view the outlook is brilliant, both for the immediate school year and for the future. The entire new policy inaugurated with the entrance of the present freshman class.

The past few months have contained long and anxious days for all those who have been responsible for the various and radical changes adopted as a part of the future policy of the college. They were impressed, perhaps, with the number of the public interests affected, and shrank from breaking with established custom and tradition. After the retirement of President Smith, after the announcement of changes in the course, after the short winter courses were begun, and even after the official opening of school, there was an overawing sense of the magnitude of the problem facing them. The measures adopted, the advocates of these measures troubled for the result and anxiously awaited all reports and signs to see what judgment the patrons of the college would pronounce.

Even had the conditions for an easily interpreted popular verdict been normal this anxiety would have been magnified a hundredfold; but there was also the complication that those who have grown harder and business wiser as the days have gone by. Business men have seen, perhaps, an excess of the immediacy and absolutely essential. Nobody is promising new obligations that can in any way be avoided. Such has been the almost overwhelming number of advances in opened, attended by smaller numbers and assigned as a cause the hard times. Our hearts died within us; and we said: "Surely the judgment of the public, as professorated in the numbers in attendance at our opening, will be such that, no matter what the real cause, those who so desire may distort it to their lies and we shall have to endure the odium of all unsuccessful innovators."

Finally, the 14th of September came. The chapel bell rang, and the chapel was filled to overflowing. We have not for years seen such an attendance on the opening night. We felt that our fears were at an end, and that the justice of our conclusions was established.

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SEAL'S HINTS FOR BEGINNERS IN BOTANY.

1. A word close in your ear. Guileless simplicity and unquestioning faith in all humanity are really very attractive qualities of youth—sometimes irresistible to the fair-hued sophomores. Beware! The book is open—your studies are yours—your responsibility is great.

2. Be sure to avail yourself of the full of all the advantages so lavishly thrown around you. Do you know that the potentialities of the American student are larger than those of any other country? The United States where you will be allowed to have such direct and personal access to so wide a range of costly apparatus as you may have here? See to it that you lose no opportunity of this kind. Here, for instance, the library. It is probably a larger, and certainly a better, collection of books than you have ever seen. Don't you know the handle, navigate the books that you may never have the opportunity to see again. For the time being they are in every way the best. They give you access to the privy gardens of the professional world. Make your daily schedule so that you can spend at least one hour daily in the library. Get someone to advise you and manage friends with the librarian; or, and that brings me to hint No. 3.

3. Cultivate your teachers, they need it. Don't leave all the friendly advances to them but make some effort yourself to gain and retain, which will inevitably be of invaluable value to you. The Record knows them all, and can assure you that you have no teacher who is not extremely anxious to find ways of friendly approach to you. They want you, so you must cultivate them. It may be that you would like to give them some advice they feel free to come to him for counsel and assistance whenever they need it.

4. Choose carefully and consider the society that you join. Don't fall into a fluster of flattered and so the first allée of unconsciousness. None of our secret fraternities are supposed to be mere social clubs, and if you join one for that feature alone, both in the interest of right. It will count you a hundred fold in character and reputation.

5. Don't neglect the religious side of your being. A faculty that box demands for an indefinite time will become diluted and shriveled. And this is the faculty that you can least afford to neglect. Don't be a backer of your religion, don't wrap it in anamespace and lay it carefully away for future use after you return home. When you come to take it out again, you will find that you have lost any of that natural spirit which you have. Help to create and keep in vigorous action a strong moral and religious influence in our school life. Be a power for good for good now active at the college. Attend the Sunday services; join some bible class, give hearty and constant support to the Christian Association; join the Association and give them your best efforts.

6. Take interest in all the social events at the college but be correct and always be a little overawed, with the magnitude of the occasion. You will find them not only affable, but anxious to find out in exaggerated proportions, and, notwithstanding the situation intelligently and discriminatingly, that our patrons approve of the co-education of girls and boys.

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8. Finally, be strong, self-poised, and magnify. Put away childish things. Be earnest, purposeful, persistent. Play the part. This is a new and a higher life. You are a senior before you try to make acquaintances. It will be too late to make people know and love you then. A man finds in this week, just when he looks for Hf. with open, truthful heart, you go about among your fellow men seeking love and offering love in return, you will find it everywhere. The world is a mirror which reflects the solar, or the frowns you show it.

DEAL'S HINTS FOR BEGINNERS IN ANATOMY.

This year beginners in inorganic are using a brief text book recently written by Dr. Joel, the object and plans which are quite fully set forth in the preface from which we quote:

"So real progress can be made till the student can understand the attention for some time on a very small portion of the object, then in a similar manner, study other portions. Make frequent and thorough comparisons of the similar or similar objects. The eye is valuable in any kind of business. Mere book knowledge of natural history is a sham and a delusion."

The pupil should acquire facts and details before generalising or attempting to draw conclusions; he should know considerable about a good many species before attempting to study any system of classification.

The pupil should earn his facts, which should be found within his reach, not in his hands. Goodale: "The teacher of biology will keep the student in the right track, but let him find the truth himself."

"There is too much poring in by the teacher and waiting for the pupil to make intellectual traps and not trained investigators. The best teacher will keep constantly in view the independent study of the students to acquire information for themselves. This is the most valuable, and, although not so pleasant at first, is of far more value than the mere information acquired during a course of study in natural science."

"I object to telling students at every step what they are to see, or to imply as much by numerous direct questions. I think it wiser to place in the hands of beginners books containing good pictures of what is to be learned from specimens. To give the pupil the word in a translation in the hands of one who is studying Greek, Latin or German. Exceptional as a model now and then it is best to supply printed schedules for plant study."
(Continued)

CHICORY. (Cichorium endivia.) This is a perennial herb with a thick fleshy root somewhat like a parsnip or carrot. The seed was sown last year and grew very well, the roots reaching full size by autumn when they were harvested. This year the plants came up very thinly from pieces of roots left in the soil and it was with much difficulty that they were eradicated. A few plants, transplanted when in full leaf May 21, grew readily. Chichor has a pretty blue blossom and is sometimes grown for ornament but has escaped in some localities and become a pernicious weed. Its chief use is for the adulteration of coffee. The roots were cut the second year when in flower it makes a large yield, the two rows producing 493 pounds. The tops of the plants were as much as six inches taller than others. The plant is also sometimes used in England for fodder.

COTTON (Gossypium herbaceum.) The seeds were planted in the foregoing house April 30. Not many of them grew owing to irregularity in the application of water. When it appeared that plants from this source were likely to be a failure another lot of seeds was taken and sown in water at 110 Fahr. for 24 hours and then planted in hills out of doors. These seeds came up nicely, and it was recomended that this method be adopted in the future, the seeds being planted as soon as danger from frost is over. The plants made a good start. The weight of the roots when dug, Oct. 23, was 107 pounds.

DANISH IMPROVED SUGAR BEET. The seeds were sown June 19. It was a long time before the plants came up and when they did, they were slow growers. After the first of August they did well. The roots are a light red color and have a smooth surface. Two rows yielded 173 pounds.

LONG RED MANGELS. On May 1 two rows were sown two feet apart and four rods long. The plants grew well. The leaves are of a dark red color. The roots grew to a great length, a considerable portion of them being above the surface of the ground. They gave a heavy yield, the two rows producing 370 pounds.

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OFFICIAL DIRECTORY.

The Farm

The Farm... Department

Owing to the crowded conditions of the stables these animals will be sold cheap.

These Animals will be registered, transferred and placed on board cars at Lansing on receipt of price, which will be given on application to

CLINTON D. SMITH, Director and Superintendent

of Farm.

AGRICULTURAL COLLEGE, MICH.

THE MAPES CLOTHING CO.
207 & 209 WASHINGTON AVE. S.

THE M. A. C. CATALOG.

Strictly First-Class Photography at LeClear's.
FARMERS' INSTITUTES.

This season's work at Farmers' Institutes begins tomorrow at Marquette, where a two-days' Institute will be held. The other upper peninsula institutes will be held at the following places and dates: Iron River, Sept. 28-29; Norway, Sept. 30; Ontonagon, Oct. 1; Republic, Oct. 1-2. Ontonagon had been included in the trip, but the terrible fire there made it out of the question to hold an Institute there. The "crew" consists of Hon. Wm. Ball, Prof. C. F. Wheeler, Mrs. Mary A. Mayo, and Mr. J. H. Brown.

The details of the lower peninsula meetings are not yet arranged, but the probabilities are that the season will include the first three weeks of December, and the months of January and February.

NEWS FROM GRADUATES AND STUDENTS.

E. R. Pickell, '93, called at the college on the 12th inst.
W. A. Anerson, with $100, spent Sunday at M. A. C.
S. W. Tracy, '96, is working for Vaughan & Co. seedsmen in Chicago.
Joe Hournivas, with $50, will run a boat livery at Harbor Springs next season.
J. T. Berry, '96, goes to Cass City this week to begin teaching in the Cass City High School.
C. B. Charles, '78, is one of the lecturers engaged to take part in farmers' institutes next winter.
W. A. Maxfield, '93, Coopersville, returns next Monday to Grand Rapids College for his last year.
E. D. A. True, '96, expects to re-enter college soon for special work in the mechanical department.
Albert Finsterwald, with $50, a manufacturer of caps in Detroit, called at M. A. C. one day last week.
A. L. Pond, with $750, is spending a ten-days' vacation in Michigan. He called at the college Sunday.
W. W. Tracy, '96, has appointed to a position in the department of agriculture, Washington, D. C. G. J. Blodis, with $750, now a theological student at Albion College, called on M. A. C. friends last Saturday evening.

The engagement of James R. Petey, with '94, of W. I. B. Fickett, '93, called at the college on the 12th inst.
Peter V. Ross, '95, has been elected principal of the Muskegon, Mich., schools. He pays $7.50 a week for board. All free silver there.
H. B. Fuller, '92, spent a part of last week at home and at M. A. C. He was obliged to close his school at Lewiston on account of diphtheria.

Cards are out announcing the marriage of D. W. Roberts, with '94, to Miss Mildred Gilness, which will occur at the residence of the bride's parents in Meridian Sept. 30.
B. W. Peet, '92, for three years science teacher in the West Side schools, Grand Rapids, has recently been promoted to a similar position on the east side to take the place of Mr. Hall, resigned.
Prof. D. B. Waldo, of Albion College, who was a student here with the class of '96, visited M. A. C. last Wednesday, and in the evening spoke at the McKenney and Hobart club rooms in Lansing, "A Century of College Legislation."

In the state republican ticket there are nine names, among them Jason E. Hammond of Hillsdale, M. A. C., '86, on the Ingham county ticket there are eleven names, including Judge A. E. Cowles with '91; W. A. Rice, '91; C. B. Collingwood, '85.
L. J. Briggs, '96, has recently had his appointment to a position in Soil Physics, department of Agriculture, Washington, D. C., made permanent. He has a private laboratory with lean, water, blast, vacuum, and gas, which is next door to that of Mr. Hicks.

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