

The M. A. C. Record.

VOLUME 2.

LANSING, MICHIGAN, TUESDAY, JANUARY 5, 1897.

NUMBER 1.

Reunion of the M. A. C. Association.

A year ago, when the State Teachers' Association was in session at Lansing, about fifty alumni, students and attaches of the Agricultural College met in the parlors of the Congregational church, had a good visit, and elected officers to arrange for a similar meeting this year.

It was thought that most of the alumni would enjoy a visit to the College, so arrangements were made to hold the reunion in the library. Thanks to the kindness and good management of the King's Daughters, the eighty guests, when they arrived soon after 5 o'clock on Tuesday afternoon, found the middle of the library and alcoves occupied by tables tastily decorated and laden with tempting products of the culinary art. Mr. Gunson had presented each of the King's Daughters with a boutonniere of Parma violets, put at each guest's plate a carnation, and provided large bouquets of lovely roses for the center of the tables. Bread and butter sandwiches, potato salads, pickles, olives, coffee, ice cream, lady-fingers and fruit were served.

At the close of the repast, President Snyder gave a short address of welcome to the alumni, in which, after indulging in a few pleasantries, he reviewed briefly the changes that have come to the College during the past year. In the results attained he found hopeful signs for the future of the College. The alumni of a college, as well as those in control, make the reputation upon which that college stands.

In his response, Supt. C. L. Bemis, '74, recalled many amusing incidents in college life, and spoke hopefully of the future of M. A. C.

A short business meeting for the election of officers followed. On motion of Supt. Hammond, the officers of last year were re-elected. They are as follows: President, C. L. Bemis, Ionia; vice president, W. V. Sage, Decatur; secretary and treasurer, D. J. Crosby, Agricultural College.

The guests then called on a number of the professors and alumni for impromptu speeches. Dr. Kedzie spoke feelingly of his love for and faith in the alumni. Dr. Beal said a few words to the assembled "Michigan farmers," and worked in a good hit on Hammond's good crop of political beets (beats). Mr. Hammond responded that they were sugar beets. Professor Frank Kedzie hoped to see all these eminent horticulturists at the "trienial reunion" next summer, the fortieth year of the existence of our College. C. B. Collingwood wants to have some one prepare a monograph on the cost of education in land-grant colleges and an estimate of the results attained by such education. He made everybody happy by telling the best story of the evening. Prof. Wheeler spoke briefly of his interest in the alumni, more especially those with whom he had come in contact in class work. Prof. Smith was not in a mood for joking. He said the success of farm work had been much retarded because students and alumni had persisted in looking upon the whole matter as a huge joke.

It was nearly time to take the car for the city, and the meeting adjourned to continue the good time a year later. All had a good time, and all went away

feeling that the time was too short. We hope the alumni will always feel that the time spent with us is too short.

The alumni and students present were: C. L. Bemis, '74, Ionia; F. S. Kedzie, '77, M. A. C.; E. D. A. True, '78, Armada; E. P. Clark, '83, St. Joseph; W. V. Sage, '84, Decatur; C. B. Collingwood and H. E. Thomas, '85, Lansing; Philip B. Woodworth, '86, M. A. C.; Jason E. Hammond, '86, Lansing; W. L. Rossman and E. A. Holden, '89, Lansing; K. L. Butterfield and Grace Fuller, '91, Lansing; W. O. Hedrick and C. F. Wheeler, '91, M. A. C.; Marian Weed, '91, Grand Rapids; L. C. Brooks, '92, Detroit; Dor N. Stowell, '92, Woodland; C. E. Cone, '92sp, Cassopolis; Robert B. Pickett, '93, Springport; E. B. Hale, '93, Ionia; Luther H. Baker, '93, Gallien; Daisy E. Champion, '93, Lansing; Lilian Wheeler, Mrs. L. M. Woodworth and D. J. Crosby, '93, M. A. C.; C. J. Barnum, '94, Goodrich; O. S. Groner, '94, Riley; C. C. Pashby, '94, M. A. C.; M. G. Kains, '95, Ithica, N. Y.; W. C. Stebbins, '95, Clay Tallman, '95, Saranac; Gerrit Masselink, '95, Cass City; H. W. Lawson, '95, Lawton; L. H. Van Wormer and Thorn Smith, '95, M. A. C.; Bertha Wellman, '96, Ypsilanti; Joseph T. Berry, '96, Cass City; E. E. Gallup, with '96, Okemos; Sadie D. Champion, H. E. VanNorman, J. W. Rigterink, E. Dwight Sanderson, and Elwood Shaw, '97; and Pearl Kedzie, Fay Wheeler, Lou D. Baker, and Mina B. Fuller, specials. Mrs. E. D. A. True and Misses Una V. Jacobs and L. T. Mae Brosseau were also guests.

The Fruit Institute.

The "long institute" held at Shelby Dec. 15 to 18, under the direction of the Oceana County Institute Society, was an unusually successful meeting. Sessions were held morning and afternoon every day, and on Tuesday, Wednesday and Thursday evenings; the attendance varying from one or two hundred at the first sessions to a maximum of nearly 500. The meeting was designed primarily to be an educational one for the fruitgrower, and from the complimentary expressions heard after each session, there can be no doubt that it accomplished its purpose and was heartily appreciated by the progressive fruitgrowers of the region.

At 10 o'clock each day Mr. Roland Morrill, president of the State Horticultural Society, talked on peaches and plums, taking up in succession the topics, soil and location, cultivation and care, pruning, marketing, and varieties. At 11 o'clock he was followed each day by Dr. R. C. Kedzie, who spoke on forecasts of frosts, simpler chemistry of the soil, soil exhaustion, and feeding the soil. The afternoon topics were presented by Professors Taft, Barrows and Woodworth, of the Agricultural College, and included plant diseases and their treatment, the fruitgrower's insect friends and enemies, and the physical relations of water to the air, soil and plant.

Each lecture was discussed as it proceeded or at its close, and questions and suggestions were being received constantly. The day sessions were presided over most efficiently by Hon. Chas. W. Garfield, and the evening

sessions by Judge F. J. Russell, of Hart, who was re-elected president of the County Institute Society.

The first evening was given to roads, and although the local conditions make good roads expensive in Oceana county, it was clearly shown by Judge Russell, Mr. Morrill and others that good roads are by far the most economical in the long run. Good cannot fail to result from the ideas presented during this session.

The school question was in order on Wednesday evening, and was pretty thoroughly considered from several standpoints. Wide differences of opinion evidently exist among teachers, school officers and parents, but the free expression and discussion of these unquestionably will lead to closer study of the facts and better methods of meeting the difficulties.

The last evening was largely devoted to the farm home, and interesting papers were presented by Mrs. T. S. Gurney, of Hart, and Maj. G. W. Woodward, followed by remarks from Superintendent of Institutes K. L. Butterfield and Hon. C. W. Garfield.

All through the meeting the exercises were punctuated with good music, and the management deserves much credit for the general conduct of the institute.

W. B. B.

We clip the following from the *Hart Journal*, regarding the above institute:

The institute was a magnificent one, one that will be felt in many ways in Oceana county. We believe the State could do no better work than to encourage and extend the influence of farmers' institutes.

REPORT OF COMMITTEE ON RESOLUTIONS.

WHEREAS, There has been a Fruit Institute in session at Shelby during four days of the present week, under the direction of the State Board of Agriculture and the Oceana Farmers' Institute Society, your committee on resolutions begs to submit the following report.

Resolved, That we tender our sincere thanks to the gentlemen, Hon. C. W. Garfield, R. Morrill, Dr. R. C. Kedzie, Profs. Taft, Barrows and Woodworth, and Hon. F. J. Russell, for the entertaining and instructive work of the institute, and we would especially express our gratitude to Dr. Kedzie, who has always shown so much interest in the farmer and his work and who now comes to us at the ripe age of seventy-three years with all the enthusiasm of youth, to entertain and instruct us.

The Dairy Institute at Hastings.

December 15, 16, 17, 1896.

To quote the memorable words of our Armenian friend, we should have to "chase the dictionary" to find language sufficiently strong to express the feeling of a community toward creamery work or toward the dairy in general after a "creamery shark" has defrauded the unsuspecting farmers out of a good round sum of money. The people are sick of the business and don't want to hear anything about cows or butter making. Such is the condition of the farming community about Hastings, and when all the circumstances are known it is not a matter of surprise that the attendance at the dairy institute in that place was

so light. The farmers are still smarting from the loss of several thousand dollars, sunk in a creamery now closed and useless.

At Middleville on the west, Woodland on the east, Shultz to the south, and perhaps in one or two other places in Barry county, creameries are now in successful operation. It was from these centers that the majority of interested farmers who attended the institute came. The program was arranged to discuss at the outset the rules for the selection and breeding of the herd. This was followed by a detailed description of methods of feeding and caring for cows, and finally by a careful review of the various steps in the art of butter making. The interest of those present in the program was entirely satisfactory.

No local program had been prepared for the evening sessions except that the commissioner of schools of the county, Miss Flora Beadle, gave a very interesting talk on the needs of the country schools, on Wednesday evening. There was no lack of response on the part of the audience nor of willingness to take part in the discussions, but it would have been manifestly better in this case if the program had been a general one and local speakers had been assigned to a more prominent place on the program.

It may be said in conclusion that, although under a cloud at Hastings, the dairy business is by no means dead in Barry county. This is shown by the rapid gains made by the creameries at Woodland and Middleville. The Woodland creamery has taken in in the year 1896, 2,650,000 pounds of milk as against 1,749,000 pounds in 1895, and made in the year 1896, 122,730 pounds of butter, an increase of 43,329 pounds over the preceding year. This increase is due both to new patrons and an increased number and better care of the cows with the old ones. It was pleasant to hear the people from Middleville and Woodland ascribe somewhat of their success to the benefits received from the Agricultural College.

C. D. S.

Society Officers.

The various societies and fraternities have chosen the following officers for the winter term: Feronian—President, Miss Pearl Kedzie; vice president, Miss Katharine McCurdy; secretary, Miss Hattie Chase; treasurer, Miss Ella Phelps. Hesperian—President, A. T. Cartland; vice president, J. B. McCallum; secretary, D. E. Hoag; treasurer, E. R. Austin. Union Literary—President, G. A. Parker; vice president, F. W. Robison; secretary, A. E. Wallace; treasurer, R. J. Robb. Columbian—President, T. A. Chittenden; vice president, E. C. Green; secretary, A. J. Weeks; treasurer, H. A. Williams. Olympic—President, W. R. Goodwin; vice president, J. C. Nichols; secretary, E. R. Russell; treasurer, A. Chadsey. Phi Delta Theta fraternity—President, H. A. Hagadorn; secretary, C. Krentel; reporter, C. F. Herrmann.

Mrs Beck Meyer, a lady who represented the Scandinavian countries at the international woman's congress at the world's fair, is at present a special lecturer at Stanford University, California.



At the College.

C. D. Butterfield spent his vacation in Lapeer and Bay City.

Lieut. and Mrs. Bandholtz spent their vacation in Constantine.

Thorn Smith made a short visit to his parents in Portland last week.

A. A. Crozier spent a few days of vacation at his home in Ann Arbor.

Prof. and Mrs. Babcock were at their old home in Milan during vacation.

Chace Newman went home, Portland, for Christmas and New Year's.

Prof. W. O. Hedrick spent Sunday, the 20th ult., with his sister in Detroit.

The Free Press of December 30 contained an excellent writeup of the College.

The thermometer went down to 16° below zero Wednesday night, December 23.

Prof. H. W. Mumford reports a good time at Moscow, where he spent Christmas week.

J. G. Reutter furnished his customers with Christmas beef and mutton from the College herds.

Mr. and Mrs. K. L. Butterfield entertained Misses White and Hamilton of Lapeer several days last week.

Miss Lizzie Crosby, teacher of history in the Albion high school, was the guest of her cousin, D. J. Crosby, last Tuesday.

Mrs. C. D. Smith returned a week ago today from an extended visit in Washington, D. C., and her former home in New York state.

C. E. Hoyt put in his vacation at his former home, Wayland, Mich. G. H. True spent several days at the same place, the guest of Mr. Hoyt.

Friends of Mr. G. C. Davis will be glad to know that he reached California in good health, and is located at No. 389 Summit street, Pasadena.

Prof. R. H. Pettit, assistant entomologist-elect, arrived at the College Saturday morning and enjoyed the not too rare privilege of walking out from Lansing in the rain.

Edward R. Uchida, a young Japanese student who has been three years in this country, comes to us from Amherst College to take several months of special work in dairying.

It is desired that all the student editors meet with the Record publishing

committee for a short time this evening (Tuesday) in the president's office. The meeting begins at 7 o'clock.

Prof. Holdsworth returned last Thursday evening from a trip to New York and Boston, where he has been visiting various art museums and collecting material for use in his class work.

Miss Radcliffe, a teacher in the Cadillac schools and a classmate of Mrs. Snyder's in the Lake Erie seminary at Painsville, O., was the guest of President and Mrs. Snyder during the teachers' association.

The State Teachers' association last week brought many visitors to the College. Not only did our alumni take this opportunity to renew acquaintances at M. A. C., but scores of other teachers came out to see us.

During the recent fruit institute at Shelby Prof. Woodworth visited the high school and gave a lecture on hydrostatics and the following day Prof. Barrows lectured to the same students on the circulation of the blood.

While returning from church Sunday morning, December 20, Mrs. Kedzie slipped and fell on the icy walk near the president's house and had to be assisted to her home. A few days later, passing the same spot, she was telling of her fall, when, by way of illustration, she fell again in the same place, but without injuring herself.

At the Jackson Poultry Club scoring matinee last week, Mr. Brooks exhibited 67 birds for the College, upon which he received 61 premiums—22 firsts, 20 seconds, 12 thirds, and 7 specials. There were 450 birds exhibited at the matinee. Mr. Brooks also made seven sales and added a new breed to the College flocks, a pen of Buff Cochins.

Hon. D. E. McClure, the recently appointed deputy superintendent of public instruction, in opening the discussion on nature study at the State Teachers' association said: "The Agricultural College, through the farmers' institutes, is doing more for the schools of the state in the way of inculcating correct principles in nature study than any other instrumentality in the state." We appreciate these good words, coming, as they do, from one so familiar with our public schools and one who can speak from an unprejudiced view. He might have added that the College is also doing much in the way of cultivating a love for the beautiful in nature by sending to several hundred schools of the state collections of flower seeds to be used in ornamenting the grounds.

Michigan Farmers' Institutes.

JANUARY AND FEBRUARY MEETINGS.

Jan. 5-6, Harrisville, Alcona county.

Jan. 6-7, Alpena, Alpena county.

Jan. 7-8, Tawas City, Iosco county.

Jan. 11-12, Allegan, Allegan county.

Jan. 12-13, Holland, Ottawa county.

Jan. 14-15, Muskegon, Muskegon county.

Jan. 15-16, Fremont, Newaygo county.

Jan. 12-13, Armada, Macomb county.

Jan. 13-14, Milford, Oakland county.

Jan. 14-15, Plymouth, Wayne county.

Jan. 15-16, Howell, Livingston county.

Jan. 18-19, Stockbridge, Ingham county.

Jan. 19-20, Chelsea, Washtenaw county.

Jan. 20-21, Charlotte, Eaton county.

Jan. 21-22, Laingsburg, Shiawassee county.

Jan. 22-23, Chesaning, Saginaw county.

Jan. 18-19, Morley, Mecosta county.

Jan. 19-20, Carson City, Montcalm county.

Jan. 20-21, Mt. Pleasant, Isabella county.

Jan. 21-22, St. Johns, Clinton county.

Jan. 25-6-7, Ionia, Ionia county.

Jan. 27-28, Hillsdale, Hillsdale county.

Jan. 27-8-9, Adrian, Lenawee county.

Jan. 28-9-30, Monroe, Monroe county.

Feb. 1-2, Vassar, Tuscola county.

Feb. 2-3, Lapeer, Lapeer county.

Feb. 3-4, Auburn, Bay county.

Feb. 4-5, Standish, Arenac county.

Feb. 9-10, Emmett, St. Clair county.

Feb. 9-10-11, Crosswell, Sanilac county.

Feb. 11-12, Bad Axe, Huron county.

Feb. 16-17, Flushing, Genesee county.

Feb. 17-18, Brooklyn, Jackson county.

Feb. 18-19, Coldwater, Branch county.

Feb. 19-20, Albion, Calhoun county.

Feb. 23-24, Grand Rapids, Kent county.

Feb. 24-25, Three Rivers, St. Joseph county.

Feb. 25-26, Cassopolis, Cass county.

Feb. 26-27, Niles, Berrien county.

March 2-5, round up, St. Louis.

Vacation Festivities.

Vacation passed off very quietly at the College. Nearly all the boys left for home immediately after school closed, and those who remained had work to do. And the girls—well, Abbot Hall was deserted within two hours after the last class had recited. Fourteen weeks is a long time to be away from home, and we can sympathize with those who remained here the whole term. However, we venture the proposition that those who were most anxious to get home will be among the happiest when they get back to work again.

But in spite of sparse population, the College was not without its social features during vacation. A number of the members of the Union Literary Society remained long enough after school closed to enjoy an informal party in the society rooms on Friday evening. Games and dancing were indulged in until midnight. Mrs. Cornell, of Lansing, furnished music.

Not least among the gatherings to celebrate Christmas was the one given to the vacation students in the library Christmas eve by Mrs. Landon and other members of the faculty. Pleasant games and suitable refreshments enlivened the evening, and the Christmas cheer of the M. A. C. was appreciated by all.

A pleasant Christmas dinner was enjoyed at the home of Prof. and Mrs. Woodworth. Profs. Hedrick and Crosby were the invited guests.

At Dr. Beal's Christmas dinner table were Dr. and Mrs. Beal, Miss Proud, Mr. and Mrs. R. S. Baker, and Mr. and Mrs. Gunson.

Saturday evening, the 26th, Mrs. Kedzie gave a very pleasant six-o'clock tea in honor of Mr. and Mrs. R. S. Baker. The evening was spent

in playing whist and six-handed euchre.

On Wednesday evening of last week eighteen couples, about half of them from the city, enjoyed an informal hop in the Olympic Society rooms.

A few of the Hesperians and other society boys entertained their lady friends in the Hesperian Society rooms last Thursday evening. Dancing was the order of the evening.

Notes From the Institutes.

Gaylord is the most elevated town in the southern peninsula. It has a substantial and thrifty air about it that is very encouraging. The attendance was good and the interest unflagging.

Guy L. Stewart, '95, is principal of the high school and knows and recognizes on the street very nearly every person of the 1,300 of the village. He called to see me before I was up in the morning, took part at the institute, and brought in a number of their high school pupils. L. C. Smith, '97, and myself ate dinner with him at the house of his parents. Mr. Smith will be at M. A. C. next term. In the evening Stewart and I took tea with Smith and family, and just before meal time in walked J. H. Briley, '96, from the county east, just as though he were among friends. Wm. Russell, with '96, is working in a drug store.

G. W. Leshner, with '96, attended the County Teachers' Association, this month held at Elmira. He is teaching at Mancelona. Frank Hoppins, with '97, is teaching near Mancelona.

The fame of H. C. Fuller, '92, principal of schools at Lewiston and commissioner of schools in Montmorency county, we heard of often, not only at home but in two adjoining counties which we visited. I always rejoice to hear good things from our students and never fail to make inquiries concerning all in the county visited. In nearly every instance there is a business-like air about such persons which convinces us that they made a good investment of time and money in attending M. A. C.

The "Soo," as the county seat of Chippewa county is called, surprised all of the institute workers from the south. It would have been out of place to speak of raising Indian corn, melons, tomatoes, and sweet potatoes, but in all of my experience of farmers' institutes for the past 20 years, I never have met a more attentive and eager gathering of farmers when the subject of grasses and clovers was under consideration. Questions came thick and fast, and the discussion was first class on these topics for fully two hours. They were delighted with the exhibit of forage plants which were hung on the walls. They had already tested an unusually large number of grasses, when compared with any community I have visited in the State. They raise to perfection grasses, clovers, peas, oats, wheat, bagas, potatoes, ice and numerous kinds of fish. Weeds are not very troublesome on the new farms near the "Soo." By request I visited the high school and spoke twenty minutes on learning to observe, the best way to begin botany, and one like. Farmers have a first-class home market and I heard no complaint of hard times. On the average, 77 vessels go through the locks each day of the year, while navigation lasts. Here is a market for berries, vegetables, milk, butter, chickens, eggs, meat and flowers. There are at least two disadvantages in living in this northern country; in winter the sun doesn't seem to get

more than two rods high, and in summer the people have to drive wheeled vehicles for three months of the year. In town, dog-teams are very popular, some of which are attached to elegant sleighs. Mrs. Mayo from choice was driven with such a team for a mile to the railway station. Their speed and endurance with a small load surpasses that of horses, sixty miles a day being no unusual drive. The town's people sell to tourists photographs, fancy birch-bark work, help them to catch fish and show other attentions. In numerous instances they have sold the only original set of keys to the money chest of Captain Cook, so celebrated for his sea voyage. It isn't every neighborhood that could accomplish this feat.

All sorts of inducements were held out for me to visit this fine country to study its botany and to take trout, which are almost piled up in every brook just waiting to be taken.

There is something about the air or water there than induces people to fall into the habit of telling enormous stories—and they tell them in all seriousness, as though they believed them. Two men averred that they had taken eight bushels of seed of red clover from one acre of land, while two or three bushels is usually considered a good yield in southern Michigan.

In this rigorous climate, it only takes the children from five families to constitute a large district school, and this is an important point, for Mrs. Mayo says the boys and girls are the most important product the farmer produces.

W. J. B.

Lessons in the Wood Shop.

BY ONE OF THE CO-EDS.

The first day that was appointed for the co-eds to work in the wood shop found the instructor surrounded by about twenty young ladies, all wondering what was to befall them in that strange place.

Instead of being set to work, they found they were to take a lesson in observation, so they arranged themselves in an artistic manner on the work benches and learned, perhaps not for the first time, how to use a saw, vise, plane, chisel, screwdriver, gauge, hammer, etc. By the time the hour had gone a box was completed, which was supposed to be a sample to work from, although it looked rather unstable and weak in its joinings. But the maker of the box was excusable, for one can hardly do his best with twenty pairs of eyes watching intently every movement.

Before the next Friday came each student was eager to commence her box, and by 3:30 that day the shop was nearly filled, with two ladies at each bench working busily to see who would be the first to use a saw.

It must have been an amusing sight to watch them use the saws, for some worked as though it were four-foot wood instead of a small board, while others did it so gracefully that one might infer that had been their previous vocation in life.

As the boxes neared completion, trouble came, too, and many times the hinges had to be readjusted and, in fact, all the parts be altered.

But perseverance always wins, and the last day revealed a number of boxes which many of the male students would be glad to be able to make as well. During this time several ladies left the class because they found the vice would press a finger flat, a chisel would attract blood to the surface if properly applied, and the ham-

mer cause one to have the "blues," especially felt in the finger nearest the hammer.

After this first piece was completed, a much easier task was presented, which in its completion revealed a neat little easel. Some were not satisfied with this one, so a more dainty one was made.

The last lesson, which is usually the most difficult, proved to be the most simple, which was a small frame. Each lady was permitted to carry her work home, and after some of it had been seen it was remarked that if girls can do such work, then the higher education of women should be encouraged and promoted; and why not? Is it not essential that a woman should know how to use a few tools correctly and easily as well as for a man to be handy with a needle and thread or be able to make himself useful in the kitchen in case of an emergency?

What we want, then, is not a narrow life or a narrow education, but one that will broaden us and make us capable of accomplishing more than one particular thing in life.

It certainly is a novelty to see ladies in the carpenter shop, but surely there was not a department of the ladies' work more thoroughly enjoyed than that in the wood shop.

It was not merely a recreation for two hours each Friday, but was of more benefit than that time would have been if whiled away in the society room or in any other place of mere enjoyment.

It is hoped that this part of our work may become more interesting, and that each student may become more interested in making herself useful at all places and at all times.

Changes in the Zoological Department.

The College has just lost by resignation Mr. G. C. Davis, who has been connected with the institution, as student and officer, for nearly nine years. Coming here in 1888 from the University of Ohio, where he had studied for two years, he graduated at M. A. C. in 1889, took his M. S. degree in August, 1890, and was at once made assistant entomologist of the Experiment Station. In 1892 he became consulting entomologist of the Station, and the following year was also appointed instructor in zoology, which positions he filled with credit up to the time of his resignation, Dec. 8, 1896.

While efficient in all the positions mentioned above, his special strength lay in his practical knowledge of Michigan insects, particularly those of economic importance, and in this respect his loss will be most severely felt. For several years he has given particular attention to parasitic insects, especially Ichneumonidæ, and has just completed a monograph of the sub-family Tryphoninæ.

It is much to be regretted that the health of his family compelled a removal to the milder climate of California, and a temporary suspension of the professional work in which he is so deeply interested; yet a true naturalist will always find time and scope for his investigations wherever his lot may be cast, and work done even under unfavorable conditions often proves to be of the very best quality.

Mr. and Mrs. Davis take with them to their new home the good will and kindly remembrance of a large circle of friends, with the heartiest wishes for a speedy and complete restoration to health.

Mr. Rufus H. Pettit, who was elected instructor in zoology and assistant

entomologist of the Experiment Station at the last meeting of the State Board, was born in Baldwinsville, N. Y., Jan. 11, 1869, and graduated from Cornell University in 1895. During the last three years of his college course he was undergraduate assistant in entomology to Professor J. H. Comstock, and since graduation has been assistant state entomologist of Minnesota, residing at St. Anthony Park, Minn. His special work has been in the line of insect diseases and study of the Coccidæ (bark lice, scale insects, and their allies), but he is a good botanist as well as a zoologist of wide experience, and will prove a valuable acquisition to the scientific staff of the College. He has a wife and one child, and will occupy the house recently vacated by Mr. Davis.

A Good Chance for the Right Man.

We give below part of a letter written us by a reader of the RECORD. We know the facts as stated to be correct. It is an ideal small fruit farm, and can certainly be run with profit to the one in charge. If an alumnus of the College or any other good man would like further information concerning this farm and the opportunity offered, let him address a card to the President of the College:

I have 48 acres of land in good heart and under high cultivation, joining the limits of a city of 100,000 inhabitants. Upon this place is a tenant house in excellent repair, all tools and machinery for carrying it on, and every ordinary convenience. There is a half acre of raspberries, two acres of currants, two acres of asparagus, one and one-half acres of grapes, 200 pears, 150 cherries, 150 plums, and 100 apples in full bearing; a fine young apple orchard, a young peach orchard, a

small nursery of evergreens and several thousand nursery deciduous trees. The balance of the land is a garden. The surroundings are beautiful; church and school privileges perfect. I want a man who can run this establishment. I ask only one thing of him beyond his ability to run it successfully, and that is the ownership of a team of horses. I am willing that a man equipped for the purpose shall have for one year all he can make on this place above the taxes and furnishing from the farm such products as I need for my family, and am willing to continue the arrangement for an indefinite term of years upon an equitable adjustment of net profits.

The Needle Industry.

Needles are small things, says United States Consul Monaghan, at Chemnitz, but they play a very important part in Germany's exports and she manages to sell them in vast quantities to every country in the world, including even the United States and England. Mr. Monaghan cites this as a notable example of how Germany is driving England out of her markets. First she sent clever workmen to England to work in the factories and learn the trade secrets, then they returned and imparted these secrets to their employers. As a result they now make needles as good as England's best, and make them much cheaper; so cheap that England herself buys them. A place near Chemnitz exports knitting needles regularly to Great Britain. Twelve years ago the proprietor's son served his time in a Nottingham needle mill.

"Richard III," "Cymbeline" and "Madame Sans Gene" will be all the plays in Henry Irving's repertory for his next American tour during the season of 1897-8.

BETTER BUTTER
 results from using better salt. "The Salt that's all Salt" makes poor butter better and good butter best. Salt your butter with
Diamond Crystal Salt
 next time you churn and note the finer, more delicate flavor it will have.
 Sold everywhere in barrels (280 lbs.) and bags (56 lbs., 28 lbs. and 14 lbs.)
 DIAMOND CRYSTAL SALT CO.,
 ST. CLAIR, MICH.



THE MAPES CLOTHING CO.

207 and 209 WASHINGTON AVE., SOUTH.

Our \$5.00 Suit and Overcoat Sale was a big bid for business and last week's business demonstrated the fact that LOW PRICES and GOOD VALUES are great trade winners. We have sold more goods in the past 10 days, than, (considering the conditions of the times) we could expect to have sold in a month.

We cannot stop this sale in the midst of a whirlwind of business, so will let the good work go on and continue this great profit crushing but business producing FIVE DOLLAR SUIT AND OVERCOAT SALE. We've got the goods and must have the money.

We are getting desperate and bound to make business if we don't make a cent and in our higher grades of Men's, Boys' and Children's Suits and Overcoats as well as

FURNISHING GOODS

We are offering more solid inducements, more genuine and unmatched bargains than any house in the state.

The Mapes Clothing Co.,

207 and 209 WASHINGTON AVE., SOUTH

The M. A. C. Record.

PUBLISHED WEEKLY BY THE
MICHIGAN AGRICULTURAL COLLEGE

EDITED BY THE FACULTY,

ASSISTED BY THE STUDENTS.

ADDRESS ALL MAIL TO LOCK BOX 262,
LANSING, MICH.

SUBSCRIPTION, 50 CENTS PER YEAR.

Business Office with ROBERT SMITH PRINTING
Co., Printers and Binders, 108-120 Michi-
gan Ave. West, Lansing, Mich.

Entered as second-class matter at Lansing, Mich.

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

We are continually being asked to acknowledge the good work done at this place by the College societies. Their welfare is subordinate only to the welfare of the College itself in the thought of students and alumni, while their merit is beyond contention. Not unfavorable comparisons of the literary benefits derived from these societies to the benefits coming from a year and a half or two years' course in English are frequently made, while their social and fraternal benefits are simply incalculable. For these good results the unique design of our societies, we believe, is largely responsible. While not wholly of a social or fraternal nature, as are the regular fraternities found at some colleges, neither are they simply literary societies of the lyceum type as found at others; but they combine features of both, and thus touch the student in more ways than could be done by either fraternity or lyceum alone. We believe both these features should be recognized and perpetuated in our literary societies and fraternities, and as the spirit of improvement seems inseparable from the New Year time, may not the season be favorable to renewed standards of excellence in both these departments?

The Book-Buying Association.

The cooperative book-buying association has become a reality. Explanation has already been made of its organization and purpose, and its provisions for doing business are now established. The suggestion of this association, we believe, is attributable to the faculty committee of last spring, though its feasibility had often been discussed by teachers and students before. While as few changes as can be avoided from the old method of furnishing books to the students are to be made, yet some essential differences are, perhaps, worthy of comment. The dominating idea of the association is to furnish books and stationery to its members at cost. The College books for each class are ordered through it by the teacher in charge of the class. The manager of the association is the agent of each cooperator for book-buying purposes. The capital of the association is simply the membership fees, hence no stock of books can be kept on hand nor any credit allowed any person. Over half the students and many members of the faculty have taken certificates from the association, thus approving its establishment and pressing for it a successful future.

Minutes of Board Meeting, December 22-23, 1896.

It was resolved that Prof. W. B. Barrows be made consulting entomologist of the Experiment Station.

It was resolved that Prof. R. H. Pettit be appointed instructor of zoölogy and assistant entomologist of the Experiment Station at a salary of \$1,000 per annum, and house formerly occupied by Mr. Davis, to begin January 1, 1897.

The matter of charges for appraisal and advertising forfeited College lands was referred to Mr. Garfield and the Secretary.

The recommendation of faculty to grant the degree of Master of Science to Chas. D. Thompson, of Corvallis, Oregon, was received, and the degree granted.

On recommendation of the faculty, the use of rooms in Williams Hall by Delta Tau Delta Fraternity was withdrawn; and the President and Secretary authorized to have the rooms vacated.

The committee on apportionment reported as follows:

Mr. President:—Your committee charged with the duty of apportioning the funds to the various departments of the College for the six months closing June 30, 1897, beg leave to submit the following report. The estimated current College receipts from all sources for the half year aggregate \$37,800, which we recommend be apportioned as follows:

Salaries	\$13,900
Heating, cleaning and lighting.	6,000
Farm, including deficiency for last 6 months.....	2,900
Horticultural	1,800
Mechanical	1,200
Mechanical, for experimental room, special.....	400
English. The balance remaining of the last 6 months.....
History and political economy..	25
Chemistry	600
Botany	500
Zoölogy	400
Mathematical	75
Mathematical, for new instruments	200
Physical	300
Veterinary	100
Drawing	200
Military	100
Military, for athletic instruction	200
Library	500
Women's Department	200
Offices	1,200
Contingent	2,000
Total	\$37,800

Also that balance remaining for last six months to credit of mechanical department be allowed for use in experimental room, and the balance for mathematical department be added to amount for new instruments.

Also for Experiment Station as follows:

Farm department—	
Labor.....	\$700
Seeds, feed, and contingent.....	500
	\$1,200
Horticultural department—	
South Haven.....	\$1,000
At College.....	600
	1,600
Veterinary department—	
Keeping 20 cows 26 weeks at 40c.....	\$208
One man to feed cows 6 months....	180
For laboratory.....	150
	538
Chemical department..	500
Botanical department..	75
Entomological department	50
Salaries	3,800
Total	\$7,763

The report was adopted. The Secretary presented the following relating to the death of Col. Wm. B. McCreery, who was a member of the Board from 1883 to 1890; which

was ordered placed on the record of the minutes of the Board, and a copy sent to the family of the deceased:

"The members of this Board have heard with sorrow of the death of Col. William B. McCreery, of Flint, and hereby record a word of tribute to his memory.

"During his busy life Col. McCreery held many positions of honor and trust. He took part in the war of the rebellion, where he won distinction; was treasurer of the State; United States consul to Valparaiso, Chili; and a member of this Board for eight years. In each position he was distinguished for patriotism and fidelity to the interests intrusted to his care.

"His connection with this Board was marked by earnest work for the Agricultural College, winning to a marked degree the confidence and respect of his associates. Those who were his collaborators remember him as a true friend and wise counselor."

Winter Term Announcements.

FOR FULL COURSE STUDENTS.

AGRICULTURAL CHEMISTRY.— Juniors. Dr. R. C. Kedzie. 8 a. m. every day. Chemical lecture room. Note books.

ALGEBRA.—Agricultural freshmen. Instructor Pashby. Continuation of the algebra of the fall term. Text, VanVelzer and Slichter's School Algebra. Meet for registration on Tuesday, B division at 8 and A division at 11. No lesson.

ALGEBRA.—Mechanical freshmen. Prof. Babcock. Continuation of the algebra of the fall term for the same students. Text, VanVelzer & Slichter's University Algebra. Meet for registration on Tuesday at 8 a. m., on 2d floor, south side of College Hall. No lesson for first meeting.

ANALYTIC GEOMETRY.—Mechanical sophomores. Prof. Babcock. Daily at 10 a. m., south room, 2d floor College Hall. Text, Wentworth. See bulletin board in College Hall for first lesson.

BOILERS.—Junior mechanicals. Instructor Westcott. Text-book, Wilson and Flathers. One hour per week. Regular time of meeting to be fixed later. See mechanical bulletin board.

BOTANY.—Agricultural sophomores. Dr. Beal. Meet at Botanical Laboratory, first floor, at 4 p. m. Tuesday. It is very important that no lesson be lost.

POLITICAL ECONOMY.—Senior elective. Prof. Hedrick. Text, Walker's Advanced Political Economy. Note books required. Meet in English class room, second floor College Hall. Time to be arranged.

CIVIL ENGINEERING.—By mistake this subject is printed in the schedule as one of the electives for this term. The course will not be given this term.

ELECTRICAL ENGINEERING.—Mechanical senior elective. Prof. Woodworth. Slingo and Brooker's Electrical Engineering. 9 a. m. Five days per week. Physical laboratory.

ELECTRICAL ENGINEERING.—Mechanical senior elective. Prof. Woodworth. Reference, L. P. Thompson's Dynamo Electric Machinery. 1 to 5 p. m. Wednesdays. Physical Laboratory.

ENGLISH.—For all who have not passed this subject. Instructor Crosby. Text, Maxwell's English Grammar and Burrough's Sharp Eyes. Time to be arranged.

FARM AND SHOPS.—Agricultural sophomores meet in Agricultural Laboratory at 1 o'clock Tuesday for division into three sections for work on the farm and in the shops.

FREE-HAND DRAWING.—Prof. Holdsworth. Two divisions, 8 to 10 and 10 to 12, every day. Drawing room top floor, College Hall. Material: Tablet of drawing paper, note book (made especially for this work), drawing board, rubber. Pencil, Faber's, stamped with one H.

FRENCH AND GERMAN.—Dr. Edwards. Students desiring to take French or German will meet in the English class room at 11 a. m. Tuesday to arrange hours for these classes to meet. Same text-books.

GENERAL ELEMENTARY CHEMISTRY.—Sophomores. Prof. F. S. Kedzie. 11 a. m. every day. Chemical lecture room. Note books. Text-books announced later. Two hours per week laboratory work required in addition. (4 to 5 p. m. every day except Tuesday are the work hours in the laboratory for this class.) This is the "beginning work" for chemical students.

GENERAL PHYSICS.—All freshmen. Prof. Woodworth. Lectures and recitations on matter, force and motion. 4 p. m. Mondays, Tuesdays, Thursdays and Fridays at Physical Laboratory.

GEOLOGY.—Senior elective. Prof. Barrows. Owing to absence at institutes the course in geology will not begin before the last week in January, and the time thus lost will be made up by an extra hour daily—probably in the afternoon—for three weeks. Text-book, LeConte's Elements of Geology.

GEOMETRY.—Mechanical freshmen. Prof. Babcock and Instructor Pashby. Text, Beman & Smith's geometry. Daily at 9 a. m. No lesson for first meeting. All students who will take this subject will meet Tuesday morning at the regular hour for registration and division into sections, in class room on south side, 2d floor College Hall.

HORTICULTURE.—Agricultural juniors. Professor Taft. Report for lecture at 9 a. m. Tuesday. The afternoon laboratory work will begin at 1 o'clock.

HYDRAULICS.—Elective for mechanical seniors. Prof. Vedder. Text, Church. Engineering class room 9 a. m. daily. Laboratory work subject to future arrangement.

KINEMATICS.—Senior mechanicals. Prof. Weil. No text-book required. Daily 8 a. m. Recitation and drawing rooms.

LOGIC.—Senior elective. Prof. Hedrick. Text, Jevon's Elements of Logic. Meet in English class room. Time to be arranged.

MACHINE DESIGN.—Senior mechanicals. (Engine design continued.) Instructor Westcott. Text-books, Klein's Machine Design and Klein's Steam Engine Design. Daily, 10 to 12 a. m. Drawing room.

MACHINE DESIGN.—Junior mechanicals. Instructor Westcott. Text-book, Klein. Daily, except Monday, 8 to 10 a. m. Drawing room.

MACHINE DESIGN.—Sophomore mechanicals. Instructor H. E. Smith. Text-book, Klein. Tuesdays and Thursdays, 1 to 4 p. m. Drawing room.

MACHINE SKETCHING.—Free-hand for mechanical freshmen. Prof. Holdsworth. Mondays, Wednesdays and Fridays from 1 to 3. In Mechanical drawing room, 2d floor,

Mechanical Building. Material—Whatman's royal paper (same last term). Faber's H. pencil. Book—Anthony's Machine Drawing.

MECHANICS OF ENGINEERING.—Mechanical juniors. Prof. Vedder. Daily at 10 a. m. in engineering class room. Text, Church. Read introductory chapter for first lesson.

RHETORICALS.—Sophomores. Instructor Crosby. Text, Burke's Conciliation with America. Meet in chapel—Mechanicals at 8 a. m. Thursdays; A. Agricultural at 10 a. m. Tuesdays; B. Agricultural at 9 a. m. Tuesdays.

RHETORICALS.—Freshmen. Text-books the same as those used last term. Meet in chapel. A. Agricultural at 10 a. m. Wednesdays and Fridays; B. Agricultural at 9 a. m. Tuesdays and Thursdays; A. Mechanicals at 3 p. m. Wednesdays and 10 a. m. Fridays; B. Mechanicals at 3 p. m. Wednesdays and 11 a. m. Fridays.

PHYSICAL LABORATORY WORK.—Mechanical freshmen. Prof. Woodworth. Reference, Atkinson's Ganot. Section A, 1 to 3 p. m. Mondays; section B, 1 to 3 p. m. Fridays.

RHETORIC.—Sophomores. Prof. Noble. Text, Genung's Practical Rhetoric. Meet on third floor of College Hall. Agricultural division at 8 a. m., mechanical division at 9 a. m.

SHOP PRACTICE.—Sophomore mechanicals. Mr. Leonard. Mondays and Fridays, 1 to 4 p. m. Machine shop.

SHOP PRACTICE.—Sophomore agriculturals. Mr. Theodore. 1 to 3:30 p. m. daily. Blacksmith shop.

SHOP PRACTICE.—Junior mechanicals. Mr. Leonard. Daily except Friday, 1 to 3:30 p. m. Machine shop.

SHOP PRACTICE.—Freshmen mechanicals. Mr. Hoyt. Daily except Fridays, 10 to 12 a. m. Wood shop.

SHOP PRACTICE.—Freshman agriculturals. Mr. Hoyt. Text-book, Sickels. Daily, 1 to 3:30 p. m. (6 weeks). Wood shop.

STEAM ENGINEERING LABORATORY.—Senior mechanicals. Prof. Weil. Eight hours per week. Regular time of meeting to be fixed later. See mechanical bulletin board.

STOCK FEEDING.—Agricultural juniors. Meet in Agricultural Laboratory at 11 a. m. Tuesday.

VETERINARY SCIENCE.—Elective for agricultural seniors. Dr. Grange. Meet at 10 a. m. Tuesday.

FOR SPECIAL COURSE STUDENTS.

AGRICULTURAL CHEMISTRY.—Horticultural course. Dr. R. C. Kedzie. 3 to 4 p. m. every day in Chemical lecture room.

BOTANY.—All special courses. Meet in class room of Botanical Laboratory on second floor at 1 p. m. Tuesday.

BREEDING AND MANAGEMENT OF FARM ANIMALS.—Live stock husbandry course. 10 to 11 a. m. in Agricultural Laboratory.

BUTTER MAKING.—Dairy course. 8 to 11 a. m. in basement of Agricultural Laboratory.

CHEMISTRY OF STOCK FOODS.—Live stock husbandry course. Mondays, Wednesdays and Fridays, 1 to 3 p. m. Chemical Laboratory. Bring note books.

DAIRY CHEMISTRY.—Dairy course. Prof. F. S. Kedzie. Tuesdays and Thursdays, 1 to 3 p. m. Chemical Laboratory. Bring note books.

HORTICULTURE.—The special students in horticulture will meet in

ALWAYS ON TOP.....

DAVIS & CO.

104—Washington Ave. North—104

OUR WINTER GOODS ARE NOW IN—WE WILL BE PLEASED TO SHOW THEM TO YOU.

OVERCOATS, ULSTERS, BICYCLE OVERCOATS
PEA JACKETS AND VESTS, SINGLE AND DOUBLE BREASTED MELTON SUITS
ALL UP TO DATE.

Also Full Line of ...
Furnishings and Hats

Come in and see us anyway

the Horticultural lecture room at 8 a. m. Tuesday, when arrangements will be made for the term.

STOCK FEEDING.—Both dairy and live stock husbandry courses, 4 to 5 p. m. at Agricultural Laboratory.

STOCK JUDGING.—Live stock husbandry course, 8 to 10 a. m., at the barns or in the Agricultural Laboratory.

STOCK JUDGING.—Dairy course, 3 to 4 p. m. daily, at the barns.

VETERINARY SCIENCE.—Both dairy and live stock husbandry courses. 11 a. m. in veterinary class room. Come prepared to take notes.

The Institutes.

Miss Flora Beadle, the commissioner of schools of Barry county, read a paper before the Hastings Institute on the evening of December 15, 1896, that was brimful of good things.

After clearly demonstrating the need of a healthy public sentiment in favor of the best district schools, as against makeshifts, she spoke at length of the great want of professional training on the part of many of the teachers. She thought that in a farming community, in the country district schools, especial attention should be given to the sciences related to agriculture. To teach such things properly to young children requires a teacher who is not only well versed in the sciences, but understands the best methods of teaching them. Here she thought was a place where the College could do a great work in preparing teachers.

The text books themselves should be related to farm operations. The arithmetic, for instance, could select problems from farm life and not devote all the attention to stocks, bonds and other commercial transactions. Outside of text books, the boy or girl should be taught to observe and reason. An instance was cited where a young lady could repeat by rote a deal of geological information, but did not know that her father's back yard was a part of the earth's crust which she had been studying. The young lady had a fund of information, but no education. The same mistake, perhaps in a less degree, is made in many of the primary schools; the children are stuffed, not trained; the distinction between information and education is not kept clearly in mind.

In the country schools, therefore, the young boys and girls should be educated in the things which concern their everyday life, educated for work. One of the indirect results of such training will be to make them value achieving rather than getting as the measure of success. As at present arranged, the course dictated by the State department is not related to the wants of the farmers' families, and Miss Beadle thought that the Agricultural College might well have a hand in outlining the courses for country schools.

C. D. S.

GLASSES....

—Fitted Free

C. M. Dickson, M. D.
First Floor—Hollister Block

The MAUD S

WIND MILL AND
PUMP COMPANY,



Manufacturers of
CYCLONE PROOF
GALVANIZED
STEEL WIND
MILLS AND

"MAUD S"
PUMPS,

Lansing, Mich

THE MICHIGAN SUPPLY COMPANY

WHOLESALE DEALER IN

Belting, Hose, Iron Pipe and Fittings, Tubular Well Supplies, etc.

STATE AGENT FOR

MAUD S PUMPS, LANSING, MICHIGAN

M. A. C.

SPECIAL RATES ON
PHOTOS AT

SHARPSTEEN'S STUDIO.

New Grand Hotel

EVERYTHING NEW

Special Rates to M. A. C. Boys R. RENNER, Proprietor

JESSOP & SON

Have the neatest Box Calf Shoe in the country. Practically water proof. In needle and new opera toe. Cleanest shoe on the market for \$3.00. Winter Russets in all styles from \$3.50 to \$5.00.

CASH SHOE STORE
Hollister Block, Lansing.

IF YOU MAKE A

**Mistake

And get in the wrong place try Thompson & Van Buren for your next job of printing.

IF YOU NEVER MADE A

**Mistake

Be sure you're started right (for Thompson & Van Buren's) then go ahead.

OTTAWA
STREET EAST

Phone 192 New Phone 76

J. G. REUTTER

322 Washington Ave. South

Fresh AND Salt Meats

FINE CHICAGO BEEF A SPECIALTY

We are Headquarters for all Kinds of Home-Made Sausage.

W. S. BAILEY

109 MICHIGAN AVE. W.

CUSTOM AND READY MADE

GLOTHING

D. A. SEELEY, College Agent.

News from Graduates and Students.

F. E. Skeels, '78, and wife visited in Lansing last week.

C. S. Seed, a special student here in '92, visited M. A. C. last Wednesday.

W. J. Garbe, with '96, is a dealer in agricultural implements at the "Soo."

E. P. Clark, '83, still holds the position of commissioner of schools in Berrien county.

Prof. P. M. Chamberlain, '88m, and family spent several days at M. A. C. just before Christmas.

C. J. Barnum, '94, principal of the Goodrich schools, visited the College with his wife last week.

Fred H. Brown, with —, is county surveyor elect for Chippewa county, and intends to become a farmer.

E. C. Stebbins, '95, is principal of the New Troy schools. He took the examination for a State certificate last week.

Miss Bertha Wellman, '96, spent the Christmas vacation at her home and also favored the College with her presence occasionally.

A. M. Meyers, with '93m, is superintendent of an exclusive envelope printing establishment in Chicago. He has made C. E. Meyers, 96m, manager of his Litchfield office.

Supt. C. L. Bemis, '74, of Ionia, read an able paper before the State Teachers' Association on "Should the mathematics of the elementary course include both geometry and algebra."

Last Thursday, Chas. Hulburd, with '92, called at the College on his way to Chicago from Columbus, Ohio, where he has been installing a switchboard for the Bell Telephone company.

John P. Churchill, '95m, was among the 150 recently laid off by the Illinois Central railway from the bridge department. George Simmons, '94m, was the only man retained in the draughting office.

E. B. Hale, '93, commissioner of schools in Ionia county, now lives in Ionia. He reports the teachers' institute held there the first week in December one of the best ever held in the county.

E. J. Wiley, with '71, is a lawyer and circuit court commissioner for Chippewa county. He was formerly superintendent of schools in Sault Ste. Marie. His parents once lived in Alameda, near here.

The annual report of the Michigan Dairymen's Association contains excellent cuts of Colon C. Lillie, '84, Coopersville; Thomas F. Marston, with '92, Bay City; and H. E. Van Norman, '97, M. A. C.

F. N. Clark, '89, formerly of Milford, is now in Ludington in the employ of the F. & P. M. railroad. He is billing clerk in the dock office and will remain while line freight comes across the lake during the winter.

Jesse Tarbell, '97, is teaching in the Muir public schools and at the same time reading law. He expects to enter the junior law class at the U. of M. next fall. Mr. Tarbell attended the State Teachers' Association last week and visited the College.

Married, Wednesday evening, December 30, at the residence of Mr. and Mrs. John Drought, Port Huron, Maria L. Drought to Charles P. Locke, '91. The newly-wed will reside in Ionia, where Mr. Locke has a good law practice. They will be at home Thursdays after February 1. The RECORD extends congratulations.

(Continued on page 7.)

Official Directory.

Sunday Chapel Service—Preaching at 2:30 p. m.

Y. M. C. A.—Holds regular meetings every Thursday evening at 6:30 and Sunday evenings at 7:30. S. H. Fulton, President. C. W. Loomis, Cor. Secretary.

Y. W. C. A. regular weekly meetings for all ladies on the campus Tuesday evenings at 8 o'clock, in the ladies' parlors. Meetings on Sunday evenings with the Y. M. C. A.; Miss Edith F. McDermott, President; Miss Alice Georgia, Cor. Secretary.

M. A. C. Grange—Meets every three weeks on Tuesday evening in the Columbian Society rooms. Prof. C. D. Smith, Master. H. W. Hart, Secretary.

Natural History Society—Regular meeting second Friday evening of each month in the chapel at 7:00. H. C. Skeels, President. W. R. Kedzie, Secretary.

Botanical Club—Meets first and third Friday of each month in the Botanical Laboratory at 6:30. T. Gunson, President. W. R. Kedzie, Secretary.

Shakespeare Club—Meets every Wednesday evening. Dr. Howard Edwards, President.

M. A. C. Athletic Association—C. B. Laitner, President. G. B. Wells, Secretary.

Columbian Literary Society—Regular meeting every Saturday evening in their rooms in the middle ward of Wells Hall, at 7:00. T. A. Chittenden, President. A. J. Weeks, Secretary.

Eclectic Society—Meets on fourth floor of Williams Hall every Saturday at 7:30 p. m. C. D. Butterfield, President. Manning Agnew, Secretary.

Feronian Society—Meets every Friday afternoon at 1:00 in Hesperian rooms. Miss Pearl Kedzie, President. Miss Hattie Chase, Secretary.

Hesperian Society—Meetings held every Saturday evening in the society rooms in the west ward of Wells Hall at 7:00. A. T. Cartland, President. J. B. McCallum, Secretary.

Olympic Society—Meets on fourth floor of Williams Hall every Saturday evening at 7:00. W. R. Goodwin, President. E. R. Russell, Secretary.

Phi Delta Theta Fraternity—Meets on Friday evening in chapter rooms in Wells Hall, at 7:00. H. A. Hagadorn, President. C. M. Krentel, Secretary.

Union Literary Society—Meetings held in their hall every Saturday evening at 7:00. G. A. Parker, President. F. W. Robison, Secretary.

Tau Beta Pi Fraternity—Meets every two weeks on Thursday evening in the tower room of Mechanical Laboratory. G. A. Parker, President. E. H. Sedgwick, Secretary.

Club Boarding Association—I. L. Simmons, President. H. A. Dibble, Secretary.

Try and Trust Circle of King's Daughters—Meets every alternate Wednesday. Mrs. C. L. Weil, President. Mrs. J. L. Snyder, Secretary.

This year Princeton expended for foot ball \$17,048; her receipts amounted to \$31,787, leaving a balance of \$14,739 in favor of Princeton.

FOR ANYTHING IN

**HARDWARE.
STOVES.
TINWARE,
GRANITE WARE,
CUTLERY, ETC.**

TRY

...Norton's Hardware

111 Washington Ave. S.

...COLLEGE BUS...

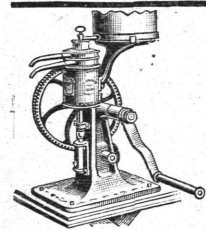
Leaves M. A. C. for Lansing at 8:30 a. m. and 1:30 p. m. Returning, leaves Lansing at 10:30 a. m. and 4:30 p. m.

Packages left at Emery's will receive prompt attention. Livery or Bus for picnics at reasonable rates.

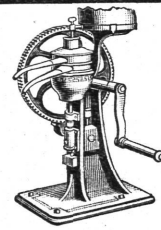
NEW PHONE

H. O. PALMER

HAVE YOU FIVE OR MORE COWS?



If so a "Baby" Cream Separator will earn its cost for you every year. Why continue an inferior system another year at so great a loss? Dairying is now the only profitable feature of Agriculture. Properly conducted it always pays well, and must pay you. You need a Separator, and you need the BEST—the "Baby." All styles and capacities. Prices, \$75 upward. Send for new 1894 Catalogue.



THE DE LAVAL SEPARATOR CO.,
GENERAL OFFICES:
74 CORTLANDT STREET, NEW YORK.

BOYS!

BUCK

..... SELLS

Furniture

RIGHT.

ALL GOODS DELIVERED TO THE COLLEGE FREE.

Best Woven Wire Cots, - - \$1 25
Best Woven Wire Springs, - 1 50

WE SELL EVERYTHING.

M. J. & B. M. BUCK

OPEN EVENINGS.

LOWEST PRICES

Will be quoted to

**SCHOOL
... LIBRARIES ...**

And others sending lists of books wanted to

Lansing Book & Paper Co.,
LANSING, MICH.

...My...

Neckwear Stock

Contains all the Latest Ideas as to

SHAPE, COLOR AND PATTERN

and the price lower than ever before. Would be pleased to have you come in and see it.

BEFORE PURCHASING YOUR FALL AND WINTER

HAT

Allow me to show you some natty "Up to Date" styles. Nothing but reliable qualities find place in my stock.

STUDENT'S PATRONAGE SOLICITED.

ELGIN MIFFLIN

THE OUTFITTER.

barefoot girls

\$2.95

will not be particularly interested in the very latest style shoes made up on the new round toe lasts, but girls who wear shoes will be pleased to see them. Made in finest Vici Kid, hand turned or welt, (extension) soles, lace or button. We call special attention to a heavy sole street shoe, made from soft, dull goat skin, fine as silk, tough as calf skin, at \$3.50 a pair. We offer these to get them started at TWO NINETY-FIVE.

REPAIRING.
We repair shoes
and mend rubbers

C. D. WOODBURY

103 Washington Ave. S.



ONE OF THE LATEST.

News from Graduates and Students.
(Continued from page 6.)

W. B. Chapman, with '99, attended the State Teachers' Association.

W. C. McLean, with '97, Jackson, made New Year's calls at M. A. C.

F. F. Stephenson, with 95sp, principal of Tawas City schools, visited the College last week.

Mrs. R. S. Baker, '91, is visiting at M. A. C. R. S. spent several days here week before last.

At a recent meeting of the Machinists' Union in Lansing, Fred Kishpaugh, with '93m, was elected past master mechanic, and Adelbert Dryer, with '93sp, was elected recording secretary.

Prof. D. B. Waldo, with '86, professor of history in Albion College, led in the discussion on introducing history into the lower grades of our public schools at the Teachers' Association. He was followed by Prof. Chas. McKenny, '81, of Mt. Pleasant.

W. L. Chase, with '99, is teaching at Irving, and hopes to return next year and finish his course. He had a narrow escape from drowning a few days ago. He was out skating with a large number of his pupils, when he and three others broke through the ice. One of these, a young lady, was drowned.

H. B. Fuller, '92, Lewiston, took the examination for State certificate last week. Ditto, R. B. Pickett, '93, Springport. Mr. Pickett also read a paper before the State Teachers' Association on "Influence of the course of study on district schools."

The following regarding E. C. Bank, '84, superintendent of the Preston School of Industry, we clip from the report of the California legislative committee: "We found nothing to criticize in the management of the present trustees. The superintendent, Mr. E. Carl Bank, though a young man, has had ten years' experience in the excellent schools at Lansing, Mich., and at Philadelphia, and seems to understand the best methods for reforming the boys committed to his charge, and is thoroughly painstaking in his work."

From Claremont, California, comes the announcement of the sudden, though not altogether unexpected, marriage of Lyman J. Briggs to Katharine E. Cook, both of '93, which occurred December 23, 1896. They will be at home in Washington, D. C., after January 15. The following reference to Briggs is from a letter by one of the Washington alumni: "A few evenings before his departure the Division of Soils staff presented him with a fine dining-room set of furniture and met at his room to give him pointers on the serious step he is about to take. Mr. and Mrs. Briggs will be warmly welcomed upon their return to Washington."

R. S. Welch, '94, teaches the natural sciences at the "Soo," and is a member of the county board of school examiners. He has completely changed about since leaving M. A. C. Here he sat as a student facing a teacher; there he is the teacher facing students. He has bought a small farm and teaches for the present to get money to pay a man for making improvements. He has faith in the future of agriculture and horticulture in Chippewa county, and thinks it a fine section for live young men who have but little money. I took tea with Mr. Welch and wife; the latter will be remembered as Miss Gongwer of Lansing who not infrequently called at the College. They have a nice daughter, Helen, seven

months old, and R. S. takes naturally enough to her care when he is about the house. Mr. Welch expects to attend the triennial next commencement.

W. J. B.

Icy Steps.

Ice on the steps at the west end of Williams Hall was the cause of a serious accident to one of our students during vacation.

Just as W. S. Howland was congratulating himself that for the first time in five years he would spend Christmas out of bed, he met with a serious accident and consequent disappointment. Coming down to breakfast on the Wednesday morning before Christmas, he had reached the bottom stair when he slipped, fell on his left arm and fractured it near the shoulder.

Such a little thing as that could not long depress his spirits, however, and we found him on Christmas morning as cheerful as many a more fortunate mortal. He has kept up a good appetite since his accident and his arm seems to be doing well.

It will be remembered that Mr. Howland was injured in a foot ball game in the fall of '90. Various complications set in, and he was confined in a hospital in Cleveland until just before the opening of the last term, when he returned to complete his course with the class of '97. It is to be hoped that his last misfortune will not seriously interfere with his work.

Board of Agriculture.

- Hon. Franklin Wells, President..... Constantine.
- Hon. Chas. W. Garfield, Grand Rapids.
- Hon. Chas. F. Moore.....St. Clair.
- Hon. C. J. Monroe.....South Haven.
- Hon. Henry Chamberlain, Three Oaks.
- Hon. W. E. Boyden.....Dellhi Mills.
- Gov. John T. Rich.....*Ex Officio*
- The President of the College.. *Ex Officio*
- Hon. I. H. Butterfield, Secy... Mich. Agr. College.

Faculty and Other Officers.

- J. L. SNYDER, A. M., Ph. D., President.
- ROBERT C. KEDZIE, M. A., M. D., Professor of Chemistry, and Curator of the Chemical Laboratory.
- WILLIAM J. BEAL, M. S., Ph. D., Professor of Botany and Forestry, and Curator of the Botanical Museum.
- E. A. A. GRANGE, V. S., Professor of Veterinary Science.
- LEVI R. TAFT, M. S., Professor of Horticulture and Landscape Gardening, and Superintendent of the Horticultural Department.
- HOWARD EDWARDS, M. A., LL. D., Professor of English Literature and Modern Languages.
- HERMAN K. VEDDER, C. E., Professor of Mathematics and Civil Engineering.
- HENRY H. BANDHOLTZ, 2d Lieut. 6th Inf., U. S. A., Professor of Military Sciences and Tactics.
- I. H. BUTTERFIELD, Secretary.
- CLINTON D. SMITH, M. S., Professor of Practical Agriculture, and Superintendent of the Farm.
- CHAS. L. WEIL, S. B., Professor of Mechanical Engineering and Director of the Mechanical Department.
- WALTER B. BARROWS, S. B., Professor of Zoology and Physiology, and Curator of the General Museum.
- FRANK S. KEDZIE, M. S.,

- Adjunct Professor of Chemistry.
 - WILLIAM S. HOLDSWORTH, M. S., Assistant Professor of Drawing.
 - PHILIP B. WOODWORTH, B. S., M. E.
 - Assistant Professor of Physics.
 - ALVIN B. NOBLE, B. Ph., Assistant Professor of English Literature and Modern Languages.
 - CHARLES F. WHEELER, B. S., Assistant Professor of Botany.
 - WILBUR O. HEDRICK, M. S., Assistant Professor of History and Political Economy.
 - WARREN BABCOCK, Jr., B. S., Assistant Professor of Mathematics.
 - EDITH F. McDERMOTT, Professor of Domestic Economy and Household Science.
 - MRS. LINDA E. LANDON, Librarian.
 - H. W. MUMFORD, B. S., Assistant Professor of Agriculture.
 - GAGER C. DAVIS, M. S., Instructor in Zoology.
 - A. L. WESTCOTT, B. M.-E., Instructor in Mechanical Engineering.
 - DICK J. CROSBY, B. S., Instructor in English.
 - MERRITT W. FULTON, B. S., Instructor in Agriculture.
 - BURTON O. LONGYEAR, Instructor in Botany.
 - CYRUS C. PASHBY, B. S., Instructor in Mathematics.
 - GORDON H. TRUE, B. S., Instructor in Dairying.
 - CHARLES E. MARSHALL, Ph. B., Instructor in Bacteriology.
 - H. E. SMITH, B. S., Instructor in Mechanical Engineering.
 - K. L. BUTTERFIELD, B. S., Supt. Farmers' Institutes and College Field Agent.
 - D. B. BALDWIN, Engineer.
 - THOMAS GUNSON, Foreman of Greenhouse.
 - F. C. KENNEY, Assistant Secretary.
 - ERNEST WITTSTOCK, Foreman of the Farm.
 - W. S. LEONARD, Foreman of Machine Shop.
 - THOMAS DURKIN, Foreman of the Horticultural Department.
 - CHARLES E. HOYT, Foreman of the Wood Shops and Foundry.
 - E. S. GOOD, Clerk to President.
 - CHACE NEWMAN, Clerk of Mechanical Department.
- Station Council.**
- Clinton D. Smith, M. S..... Director and Agriculturist.
 - Jonathan L. Snyder, Ph. D., Pres..... Ex Officio.
 - L. R. Taft, M. S..... Horticulturist
 - Robert C. Kedzie, M. A., M. D..... Chemist.
 - Ira H. Butterfield, Secretary and Treasurer.
- Advisory and Assistant Staff.**
- A. A. Crozier, M. S..... Assistant in Agriculture.
 - Herbert W. Mumford, B. S..... Assistant in Agriculture.
 - H. P. Gladden, B. S..... Assistant in Horticulture.
 - M. L. Dean, Assistant in Horticulture.
 - Thorn Smith, B. S..... Assistant in Chemistry.
 - E. A. A. Grange, V. S..... Consulting Veterinarian.
 - G. C. Davis, M. S..... Consulting Entomologist.
 - Chas. F. Wheeler, B. S..... Botanist.
 - Mrs. L. E. Landon..... Librarian.
 - T. T. Lyon, So. Haven..... In charge of Sub-Station.

- R. L. Taylor, Lapeer..... In charge of Apiary.
- Sub-Stations.**
- Grayling, Crawford county, 80 acres deeded.
 - South Haven, Van Buren county, 10 acres rented; 5 acres deeded.

**How is This?
.. SUITS ..**

MADE TO ORDER
FOR \$15.00 AND UP

Come in and examine our goods and get prices. They will astonish you.

Woodbury & Savage,
208 Washington Ave. South.

**The Farm Home
Reading Circle**

OF THE

**MICHIGAN STATE
AGRICULTURAL COLLEGE.**

THE AIM OF THE FARM HOME READING CIRCLE.

The fundamental purpose of the Agricultural College is to educate farmers' sons and daughters toward the farm and not away from it. She is doing this and in addition is making it possible for those who cannot afford a college course to become posted on agricultural topics through the Farm Home Reading Circle. One of the objects of the Farm Home Reading Circle is to recommend the best books for the farmer, gardener and stock breeder to read, and at the same time to furnish an opportunity for the farmer to buy those books at greatly reduced prices.

The course of reading outlined has been prepared by men who are authority in their special lines. The books offered in the course are thought to be as good as can be secured at a reasonable figure.

The privileges of the Farm Home Reading Circle are not limited as to age or occupation. Anyone who is a resident of Michigan may become a member. One of the most commendable features of this course of reading is that you can read alone.

You do not have to organize a society.

MEMBERSHIP COSTS NOTHING.

ADVANTAGES TO MEMBERS OF THE FARM HOME READING CIRCLE.

1. An opportunity to pursue a systematic course of reading under the direction and with the aid of all departments of the Michigan Agricultural College.
 2. The publications of the Michigan State Experiment Station are mailed free to members of the Farm Home Reading Circle.
 3. You can secure standard books at greatly reduced rates.
 4. You not only secure the benefit yourself, but you get a certificate on the completion of each book which cannot fail to be a source of satisfaction to you.
 5. You can receive a prompt answer to any question in regard to farm topics by applying to the college through the Secretary of the Farm Home Reading Circle.
- Full information in regard to how to join and the different courses offered will be furnished promptly upon application to the secretary,

HERBERT W. MUMFORD,
Agricultural College, Mich.

A Committee from the State Grange, after looking over our Institution, reported: "The Michigan Agricultural College is not well enough advertised."



WE ADMIT THE TRUTH OF THE REPORT

... WE KNOW ...

that not half the people of Michigan are aware of the superior advantages for a good education that our College offers.

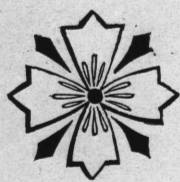
WE HAVE

three four year courses running nine months in the year. These are the

AGRICULTURAL COURSE MECHANICAL COURSE AND WOMEN'S COURSE

The instruction of the class-room is put in practice in field, shop, and kitchen, and so these courses develop all-round men and women.

Just now we want to call your attention more especially to our four special courses. These six weeks courses, which are now in session, are planned for those who have not the time or money for a full course. These courses include



Dairy Husbandry
Live Stock Husbandry
Fruit Culture
Floriculture and
Winter Vegetable Gardening

We can't give full particulars here, but if you are interested write to _____

President J. L. SNYDER,
AGRICULTURAL COLLEGE, MICH.