Institutes.

HARRISVILLE.
The Alcona County Institute opened in the Alcona Odd Fellows Hall on Tuesday evening, Jan. 5, with Roland Morrill as conductor and J. Van Buskirk of the College as lecturer on "Green Manuring." J. H. Brown.

The next institute will be held in Mount Pleasant, Thursday, Jan. 21, with Dr. L. Westcott "Some Notes and Observations on the Feeding of Silage" and "Insects of the Garden and Orchard" and "Parvenes of Domestic Animals." The attendance has been good and the farmers have shown a great interest in the various topics discussed. There are many good farms in this section, and the intelligent farmers manage them to the best possible advantage. Times are very hard, they all declared, and the farmers deplore the excessive taxation. Dr. Brown is president and George C. Anschutz secretary of the county society. Among the local speakers were Rev. A. C. Kay, J. M. Walker, and John Anderson.

A Busy Day in the Dairy.

I visited the dairy rooms last Thursday morning and found it a very busy and interesting place. There were seventeen short-cours students at the dairy school, all of whom are Amherst College—one a graduate in '38, and the other the Japanese student— presented at last week's meeting. All were busy; some running the Buck chuck tester to find the percentage of butter-fats in the milk used; some separating the cream from the buttermilk, churning, working, buttermaking, churning, or adding the ripening vinegar. Instructor G. H. Town is a very busy man from 8 a.m. to 11.30 a.m. each day. This is especially true just now, when the students are learning the ways of the dairy. Each student is required to go through the whole process, from testing milk to packing butter for shipment, and he must keep a complete and accurate record of each step in the process. By studying them in sections at different times the instructor is enabled to have all the various operations in progress at nearly the same time.

The student begins with the washing process. After testing his milk for percentage of butter-fats, he weights the cream in a separate vessel and then through the separator, and both cream and skim milk are weighed and tested for the amount of butter-fats lost in the skim milk. Next is the ripening process. The cream is put in vats, around which hot or cold water can be run, to bring the cream to the proper temperature for ripening. Four tests of acidity are made during this process. The following day the cream is churned. Here again, by weighing the butter and buttermilk, and testing the latter, an accurate record of the amount of butter-fats lost is kept, so that at the end of the whole process the student can tell just what percentage of butter-fats has been lost in separating and churning.

Then the butter is washed, salted, weighed, and put up for market. Some is packed in tubs, and some is made into cakes, stamped with the College monogram and wrapped in oiled paper. The butter and skim milk are kept for home consumption. If the cakes are intended for shipment, each cake is enclosed in a wooden box or, more properly, envelope, which protects the shape of the cake.

Just before 11 o'clock the students are required to wash and put away all dishes and put the dairy rooms in good order, for the next hour is spent in the laboratory section as usual. Prof. W. R. Barrows, of the Agricultural College, lectured on "Insects of the Garden and Orchard" and "Parvenes of Domestic Animals." The officers of the society are: President, Geo. L. Wells; vice president, Frank F. Rogers, '88; secretary-treasurer, Frank Homan; '94; C. C. Pashby, '94m, will read his address to several Indian tribes, were surveyed, sold, and sold by the government for the benefit of these tribes. I was one of the first after the survey to examine these lands to select a homestead. There was quite a high hill on the top of which was a "buffalo wallow," and extending in a beautiful slope from this to Hickory Creek was the land I selected.

The United States Civil Service Commission will hold an examination in Washington, D. C., and other large cities where there are applicants, commencing on the 9 a.m. on January 28th. The examination will be open to all persons who are interested in civil or mechanical engineering or surveying and is intended to invite the attendance of those who are interested in the engineering profession. The examination will be held at the Agricultural College and will be open to all persons interested in and about the College. The officers of the society are: President, Geo. L. Wells; vice president, Frank F. Rogers, '88, Port Huron; secretary-treasurer, Frank Homan; '94; C. C. Pashby, '94m, will read his address to several Indian tribes, were surveyed, sold, and sold by the government for the benefit of these tribes. I was one of the first after the survey to examine these lands to select a homestead. There was quite a high hill on the top of which was a "buffalo wallow," and extending in a beautiful slope from this to Hickory Creek was the land I selected.

The earth which was under the rock, when thrown out, in the course of a few weeks was covered with a rich growth of tropical vegetation. The body was thrown into the river, and other varieties of palms, besides shrubs, plants, weeds, and grasses in great numbers, all totally unlike anything with which we have been familiar.

How many millions of those old and forgotten diaries, which have been lost in separating and churning.

The milk is put in tubs to Chicago.

The Dairyman's Day and Other Provisions.

The Dairyman's Day was held in the court house at Harrisville on the 21st of December, and the attendance was the largest ever seen. The meeting was opened by Prof. A. A. Crozier, and a special committee was appointed to invite the women to attend. The meeting was well conducted, and the addresses were fully appreciated. The ladies of Alpena and pupils of the high school were in the court house room full for the women's session as usual. Prof. A. A. Crozier, of the College, spoke on "Inheritance of qualities in agriculture," and the "Feeding of Silage; its composition will hold an examination in the division of chemistry, department of agriculture. The salary of the position is $1,200 per annum. The subjects of the examination will be as follows: Essay and report writing. French and German. General and analytical chemistry. Agricultural analysis. Industrial and agricultural chemistry. Persons who recently took the civil service examination and employed by the department of agricultural chemistry, and an opportunity afforded to visit the laboratory. The United States Civil Service Commission will hold an examination in Washington, D. C., and other large cities where there are applicants, commencing on Tuesday, Jan. 12, 1897. Check lists of applicants may be obtained by applying for an application blank and filing their applications as soon as possible.


A new and promising field of College advancement will be entered by the Y. M. C. A. and Y. W. C. A. reception last Friday evening. One of Howell's finest "boys" was selected by a company composed of College talent in a manner creditable to themselves and pleasing to their friends. The reception was appropriately and handsomely humorous and was faultlessly presented. Miss Bristol and Mr. Croese with Judge and Mrs. Holmes were especially and fully supported. The pleasure of more entertainment of this sort during the winter.

The College is shipping butter in tubs to Chicago.

The Michigan Engineering Society.

The eighteenth annual convention of the Michigan Engineering Society will be held in Lansing Tuesday, Wednesday and Thursday, January 29, 20, and 21, 1897.

Dr. Grange lectures to them daily on problems intimately associated with dairy work. The work proceeded from day to day until at last they were a little over an hundred feet below the tent which was left for a while near his house. The men hesitated whether to give up the idea or to go on; finally, the rock appearing thin, they worked through; and found, to their great surprise, a fine rich surface soil: digging through this they found gravel, clay, and plenty of water. The earth which was under the rock, when thrown out, in the course of a few weeks was covered with a rich growth of tropical vegetation.

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At the College.

Mr. Hoyt has 20 freshmen in each course in the woodshops.

The Y. M. C. A. held a series of prayer meetings last week.

W. F. Ball, of Grand Rapids, visited his son at Hobart on Monday.

Enrollment cards have been taken for both the Macomber and the Filet line.

The Union Literary society has presented a play.

The Y. M. C. A. held a series of lectures on typesetting.

Mr. Hoyt has 30 freshmen in each course in the woodshops.

The M. A. C. Record.

JANUARY 12, 1897.
the case; and while the ver- 

table of his experiments 

he hoped it would yet, he knew not 

affairs. Poor Gutenberg! What would 

It is my mind," 

d_everything to make blurred letters. When his 

M. A. C. RECORD. 

THE M. A. C. RECORD. 

We are getting desparate and bound to make business if we don't make a cent 

207 and 209 WASHINGTON AVE., SOUTH
er together, give such a better understand­
ing of the others, and be valuable
forestry.

"Michigan, once covered with a
wooded forest, has been almost
plowed, and much of the land from which the timber has been strip-
...ing. A little time is required to study in
such a way as to bring the people of the State
the means of a general diffusion of
information, the prevention of diseases, especially of com­
municable health, and the prevention
of accidents among its contributors. It is a
exercise of the State land office, with
some assistance from the State Board of
Agriculture, which have under
taken finally such a work as a forestry department of the State, in
a worthy manner as to your earnest con­
deration.

STATE AGRICULTURAL COLLEGE.

"This College continues its high rank
among the other agricultural colleges
of the nation. There have been some
...onmental changes made, and this year
...ed in the use of the institutions, as
although they have been on trial too short a time for us to determine
their real value. It is the same with
...sion, so well endowed, and affecting
the general health of the State, and
education, should be more liberally
patronized by the great agricultural
classes of our State. It would seem
that they do not fully realize the great advantages to be obtained,
or the attendance would be larger than it now is or ever has been.

Care of Farm Machinery.

[Read before the Farmers' Institute
at Cosopolis by H. Cobb, of Edwards­
burg.]

"The subject of the care of farm imple­ments is one considered on many
farms as being of little importance.
But if so considered, we should re­
...enial of a serious trespass, and we
...cause the work to lag.

When the farm implements are put
away, the machinery is ruined each year entirely
...the mower, which is a small thing
... detects to show that we sometimes cannot
...which have become practically desert.
...come necessary to procure new ones
...come useless by so doing, and it be­
tween the old ones should still be
in use. These, after the shelter is
provided, should be taken apart and
thoroughly clean and oil all the bright parts
of each tool as it is put in its place.

Not infrequently it costs the farmer
...en if the plunger bolt con­
...ast never found anything as good as cot­
...the bright parts are not oiled, the
...cerrate the necessity of any special
...not give the plunger bolt
...to repair, and when the winter
...When the binder is stored away, the
...and procure the best seeds and plants
...best tools and farm machinery
...in a financial way at least. On such a
...show that none of them could tell me what to do
...will hardly be undertaken by individ­
...munity than in two seasons in actual use.

Many machines that appear to have
passed several days of usefulness have
...that holding the twine in line...ctor is not broken. I
...生涯, and he treated them as
...in a part of the nation. There have been some
...cause the work to lag. It does seem,
...tion, and with no thoughts beyond the im­
...same as the first spark to
...plowed, in the order of the field, in another case
...crop, and, after loosening enough
...to make it, and one I
...cause every work to lag.

There is another side to this ques­
tion: it is not economy to
...surable. The expense of the forest has been
...bare, and with no thoughts beyond the im­
...be very beneficial to individuals, which
...of the forest in the first sparc
...for the first spark of fire, and a menace to all the good
...resulted in the greatest waste of
...State has ever known. Hundreds of
...of acres of land in the
...ing. We have a responsibility
...surable. The expense of the forest has been
...bare, and with no thoughts beyond the im­
...be very beneficial to individuals, which
Also Full Line of Furnishings and Hats

Deodrebinium Growing Upon Bones.

A writer in the Gardeners’ Chronicle says he recently came across "a remarkable instance of an orchid growing upon the skull of a sheep, the species being Deodrebinium Parilisii, which was no one of the old pseudo-bulbs, was a very small piece when fastened to the skull. This is its second year of growth, and the length and stoutness of the new pseudobulbs, the extensive network of roots around the jaw bones and teeth, in and out of the eye-sockets and other indentations of the skull, show plainly that the bulb suits requirements. Equally luxuriant is a plant of D. pulchellum growing upon a skull of a dog, where in general instances the bulbs usually attain a length of three or four inches, the plant under notice has this season made a longer approach in approaching such lengths in length. This information may at the present time be all the more interesting, for it will materially assist the arguments put forth by Doctor Kodzie, of Michigan Agricultural College, that the growth of epiphyllous orchids is stimulated by their absorbing mineral matter through the agency of their roots.

Why Stick in the Mud.

During the holiday week and since then the condition of the roads near the College, and probably all over the State, has been wretched beyond ex- pression. Several districts are so deep as to make travel almost impossible. And yet the people of the State cannot afford to neglect the roads. Michigan may do well to begin the solution of so great a problem by having a commission selected to gather information concerning the needs and a partial report or the methods pursued elsewhere that have been successful, settle upon a policy that would be wise and of long duration.

"I know the mere suggestion of such a plan would be met at the outset by the criticism, "Oh, yes, you are just like all the other fellows, arranging for more offices.” All I have to say in reply is to call attention to the method of the Village lumberman when he is about to purchase an area of timber. He does not put it off because he does not know how much timber there is on the land; he does not trust his own judgment unless he is an expert, but he employs a competent woodsman to estimate the value of the area. Upon his report he bases his judgment of the possibility of the investment. He does not put it off because he does not know how much timber there is on the land; he does not trust his own judgment unless he is an expert, but he employs a competent woodsman to estimate the value of the area. Upon his report he bases his judgment of the possibility of the investment. 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"I certainly hope the press of the State will take up this important matter and help to awaken an interest amongst with the importance of the large amount involved.

"Incidentally, I might say that the query raised by the Evening Press not long ago with regard to the destruction of our game could be completely solved in the establishment of a forest preserve of several townships wherein animals not be hunted, and in which they would be safe in nurturing their young. Other game restrictions with this established condition would be unnecessary.—Grand Rapids Evening Press.

Among the visitors at College last week were the following representatives in the State Legislatures: William J. Oberdorfer, Stephenson; George W. Rollison, Hanceo; George E. Gilliam, Harrisville, and John Caldwell, Man- nes-

Weighing Living Fish.

A visitor at the aquarium who had wondered how they managed to get the weight of a live fish accurately, learned that that was really a very simple thing to do. The fish put into a pull of water, which is weighed with the fish in it. Then the fish is taken out and pull and water are weighed without it.—New York Sun.

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) then go ahead.

OTTAWA STREET EAST

The dairy is now purchasing 900 to 500 pounds of milk daily for use in the laboratory. Through the courtesy of the Lansing Condensed Milk factory we are enabled to get the milk from one of its regular customers, Mr. Stewart, who lives near the North Lansing road.

If you have plenty of good points about you the world won’t sit down on you very hard.—E.
News from Graduates and Students.

S. A. Luogge is again in College.

G. T. B. H. has returned to College.

R. M. Bates, '83, was in the city Friday.

C. A. Jowett, '90, visited the College Friday.

H. H. Smith is again with us as a student.

Fred P. Clark, '93, was in Lansing last week.

Frank J. Porter, '93, is farming in Leelanau county.

L. G. Stone, '74, a student, visited at M. A. C. Saturday.

C. F. Wells, with '73, is a practicing veterinary surgeon at Warren, Mich.

L. C. Smith, with '71, has returned and expects to graduate this year.

Wabew Matzen, '96, sailed for Japan from San Francisco the 29th of last month.

Jason Woodman, '81, is lecturing in the interests of the Grange in Oceana county.

C. B. Sparer is among the old students who have returned to take up college work.

D. McFarland, of Cass City, a brother of D. D. McArthur, '94, is taking a special course.

Geo. Swift, with '73, has married and has a carpenter and cabinet shop in Harbor Springs.

We are glad to announce that D. W. Tudor, '75, has recovered from his recent severe illness.

Dwight S. Cole, '95, is one of the recently-appointed clerks in the auditor general's department.

Wendall S. Paddock, '03, of the General experiment station, N. Y., visited M. A. C. the early part of last week.

Mrs. A. T. Turner, '75, is taking special work in the Mechanical course and his wife is enrolled as a short-course student.

F. W. Lewis, with '94, has just finished the work of his course and has been granted a diploma with the degree B. S.

L. C. Brooks, '92, left Saturday morning for Schenectady, N. Y., to accept a position as draftsman for the General Electric Company.

Mrs. K. S. Baker, '91, leaves for her home in Chicago this week. She will be accompanied by Miss Lilian Wheeler, '93, who will visit in Chicago.

L. R. Hall, '94, has moved from heltino to Saginaw. He has recently been made district manager for the New York Mutual Life Insurance Company.

William Greiner, with '93, will talk on the Michigan Agricultural College at the Teachers' and Patrons' Association in Erie, Oceana county, next Saturday.

Married, at the residence of the bride's parents, Hemphill, Ill., November 28, 1896, Florence M. Cecil, to John P. Church, with '91, and Mrs. Church, resident at 2418 Indiana avenue, Chicago.

C. B. Smith, '94, writes from Washington to say that at least a few finds him unusually happy over a substantial and wholly unexcited increase in his salary. He further says "Frank Hall, '83, has been promoted to the position of Expert Agriculturist with a salary of $1,000 per year.

A letter from A. R. Rogers, with '97, says: "My brother, J. R. Rogers, with '90, and myself are farming on the home farms. He is devoting his time to horsemanship and to the office of town clerk, while I am at the more profitable business of general farming." The Rogers brothers live at Lime Creek, Michigan.

H. M. B. A. C.

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 Wednesday evening at 7:30. S. H. Walton, President. C. W. Loomis, Corresponding Secretary.

H. L. F. L. S. A.—Organizes regular weekly meetings for all ladies on the campus Tuesday evening at 6 and on Thursday evening in the Chaplain's parlor. Meetings on Sunday evenings with the Y. M. C. A.; Miss Edith P. McDermott, President; Miss Alice Georgia, Corresponding Secretary.

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

Natural History Society—Regular meeting second Friday evening of each month in the chapel at 7:30. H. C. Sheets, President. W. R. Kedzie, Secretary.

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

Quakers'un Club—Meets every Wednesday evening. Dr. Howard Edwards, President. M. A. C. Athletic Association—C. B. Lilienthal, President; G. B. Wells, Secretary.

Columbian Literary Society—Regular meeting every Saturday afternoon at 2:30 in the Biology Laboratory. Prof. W. C. Robbins, President. E. E. Dibble, Secretary.

Fellowship Society—Meets on the fourth Friday of each month in the middle ward of Wells Hall, at 7:30. T. A. Chittenden, President. A. J. Weeks, Secretary.

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

Ferndale Society—Meets every Friday afternoon at 1:00 in Hesperian room. Miss Pearl Redwine, President. Miss Hattie Chase, Secretary.

Hesperian Society—Meets every Saturday evening in the society room in the west ward of Wells Hall at 7:30. A. T. Garland, President. D. E. Hoag, Secretary.

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

Phi Delta Theta Fraternity—Meets on Friday evening in chapter rooms in M. A. C. at 7:00. H. A. Hagstrom, President. C. M. Kroot, Secretary. Union Literary Society—Meetings held in their hall every Saturday evening at 7:30. G. A. Parker, President. R. W. Robinson, Secretary.

Taft Beta Pi Fraternity—Meets every Thursday evening in the dormitory room of Mechanical Laboratory. G. A. Parker, President. E. H. Redwick, Secretary.

Club Boarding Association—A. L. Simpkins, President; H. A. Dibble, Secretary.

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

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Leaves M. A. C. for Lansing at 8:30 a.m. and 12:30 p.m. Returning, leaves Lansing at 10:30 a.m. and 4:30 p.m.

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

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

STUDENT'S PATRONAGE SOLICITED.

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