The special course in cheese-making is in full blast. Every afternoon of the past week, twenty students in this course assembled in the Physical Laboratory, where Instructor True teaches them the use of the Babcock rectifier, the calibration of bottles, the rate of speed for efficient separation, the use of the thimble, the gravity of acid, and other essentials to scientific work connected with the process. For the average Michigan of the cheese-makers, and some of them are men of long experience in the business, have always bought milk by the pooling method, paying the same price for all kinds of milk. Only two understood the use of the Babcock test before coming here, but all readily see the advantage of knowing the percentage of butter-fat in milk and of buying on that basis.

At ten o'clock all go to the cheese-room to make cheese. There the Agri-
cultural Laboratory and begin the practical work of making cheese. Here go pigs of milk as they come out of the vats, and here the students work under the supervision of Instructor Aderhold until about 120 pounds of milk are ready to be used, which is usually about four o'clock in the afternoon. The cheese is usually made a large vat, so as to have the conditions the same as in a factory. There is nothing visionary or in the way of idealism about the work; it is all actual practice, and they do really make cheese, a fact which was made apparent to us when we looked upon the row of cheeses in the curing room.

Although M. Aderhold teaches a course not unknown in Michigan, the students, some of them cheese-makers of from eight to seventeen years experience, all like it. There is a general impression that Cheeddar cheese cannot be made well enough to satisfy the Michigan market, but Mr. Aderhold says he will show that it can be done. He has a plan for improving the system he teaches. The first day's milk was sour and in such a condition that a cheese-maker would not have attempted to make cheese of it, but Mr. Aderhold taught it all right. This, said one enthusiastic student, taught me enough in one day to pay me for coming here.

Twenty-Seventh Annual Meeting of the State Horticultural Society.

For several years it has been the custom of the Hon. H. H. Hovey to keep an account of his meetings in sections where there is a large fruit-growing interest, but as an invitation to carry it on, there is a proposal that the Hon. H. H. Hovey of Gratiot county, where, although the leading interests are more of an agricultural nature, it is thought to be a chance for a successful meet-
ing, it was decided to go there.

On Wednesday, December 7, with a comparatively small local at-
tendance, but with a number of vis-
itors from various parts of the State,
At the College

L. E. Sagg, '09, is out again.

The Phil's entertained ladies Saturday evening.

H. C. J. Monroe was at M. A. C. yesterday.

Elton Bailey, '99, has been confined to his room during the past week.

There are now better prospects for a good College band than ever before.

Miss Russell Taylor, '01, spent Saturday with relatives in Eaton Rapids.

Now comes winter and icy steps at the dormitories; next will come

The electricians are now wiring College Hall and the society rooms in Williams Hall.

During the past week R. H. Stocum has taken flash-light pictures of some of the night classes and the Abbot Hall dining-room.

Full Back Wells, to Quarter Back Ranney.—"Oh, you're not so bad—only a quarter!"

Q. B. Ranney—"Go on, you're full!"

In the fall of '96, with the prospect of November games, a few young men organized themselves into a football team and hung together through the term, although defeated by every college team they met.

But the enthusiasm was aroused; and this fall, with seven members of the old team as a nucleus, the boys went into battle with increased confidence.

Under the efficient training of Henry Keep they made rapid progress, and it was not long before two teams with plenty of ready substitutes were taking daily practice on the campus. Hard training and rapid push put them in good condition; and when they met Olivet for the first game, M. A. C. triumphed, the first time in the history of the two colleges. Then came a defeat at the hands of Kalmanoo College and a tie game with Olivet, but, far from being disheartened, the boys only buckled down to hard work. Two games were won from Alma College, who defeated M. A. C. last year. All interest now centered in the Thanksgiving day game with Western Michigan and Notre Dame. In the meantime our second eleven, which had won two games and three ties in seven matches, showed eleven excellent practice, as did also the Lansing Athletic Club in several games.

If our boys could only score against the strong Notre Dame team, they might be satisfied. As it is, the boys of the team and the Muscle Club have several reasons to be unsatisfied, as we have not been able to win a single game against them.

The outlook for the future of football here is very promising; and at least eight or nine of this year's team will be back next year; and it will be strange indeed if the class of 1902 does not contain proficient material.

Best of all, we have an invaluable stock of experience and enthusiasm as capital to begin with next year.

THE M. A. C. RECORD. DECEMBER 7, 1897.

THE M. A. C. RECORD.

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EDITED BY THE FACULTY.

ASSISTED BY THE STUDENTS.

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For various reasons the M. A. C. RECORD is occasionally sent to those who have not subscribed for it. 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.

Official Directory.

PRESIDING SERVICE—Sunday afternoons in the Chapel.

Y. M. C. A.—Regular meetings Monday evenings in West Ward, at 7:00; in East Ward, at 8:00; in West Hall, at 6:30. W. G. Loomis, President; E. H. Wood, Cor. Secretary; H. R. Clark, Secretary. Meetings also held on Saturdays, at 2:30 in the Chapel.

W. C. T. U.—Meet—seen Wednesdays afternoons at 1:30 in the Botanical Laboratory. H. Burch, President; M. L. Willson, Secretary.

SHAKESPEARE CLUB—Meets Wednesday afternoons at 2:30 in the Old Science Building. W. B. Tenney, President; W. G. W. Loomis, Cor. Secretary.

COLUMBIAN LITERARY SOCIETY—Meetings every Saturday evening at 7:30, Free Press Building. Officers—President, E. W. Doane; Vice-President, A. M. Stillman; Secretary, F. B. West; Treasurer, C. E. Townsend, '98.

CO-EDUCATIONAL SOCIETY—Meetings every Saturday evening at 7:30, Free Press Building. Officers—President, F. E. West; Vice-President, W. G. W. Loomis; Secretary, C. E. Townsend, '98; Treasurer, W. G. Loomis.

NATIONAL SOCIETY FOR THE ADVANCEMENT OF SCIENCE—Meetings every Monday evening at 7:00 in the Botanical Laboratory. Officers—President, H. R. Clark; Secretary, W. G. Loomis.

Y. W. C. A.—Weekly meetings for all ladies on Tuesday afternoon at 1:00, West Ward, Wells Hall. Officers—President, S. R. Babcock; Vice-President, J. C. Black; Secretary, Miss Marie Belliss, Secretary.

TAU BETA PI FRATERNITY—Meetings on Tuesday afternoons at 3:30 in the Botanical Laboratory. Officers—President, F. E. West; Vice-President, W. G. W. Loomis; Secretary, H. R. Clark.

M. A. C. ATHLETIC ASSOCIATION—Meetings every Saturday afternoon at 2:00 in the Botanical Laboratory. Officers—President, S. R. Babcock; Vice-President, C. E. Townsend, '98; Secretary, F. E. West.

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SINGING SOCIETY—Meets every Saturday evening at 7:30, Free Press Building. Officers—President, C. E. Townsend, '98; Secretary, J. C. Black.

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Dr. DeaL, Professor Taft and Professor P. H. Hecdick read papers at the annual meeting of the State Horticultural Society at Ithaca last week.

Coach Henry Keep is trying to arrange with Mr. Hickey, of the Lansing high school, to have at least two indoor athletic meets this winter.

F. W. Howie, of Battle Creek, editor of the Christian Educator, visited the College Thursday and was very outspoken in his praise of the institution.

Board in Club D will cost the students $2.10 per week; in E, $1.35. The price of board in the other clubs has not yet been determined by the auditing board in the other clubs has not yet been determined by the auditing committee but will be determined this week.

The Natural History Society has donated its library to the general library and such books as are not duplicated in the general library will be catalogued and put on the shelves. It would be a good thing if those interested in the Sunday school library would do the same.

R. R. Carr.

The Columbian Literary Society entertained the faculty Saturday evening with a program consisting of the following numbers: Piano solo, Irving Gingrich; paper, "Inorganic Michigan," F. E. West; oration; F. S. Ross; story, "An incident of the early railroad," C. E. Parsons; vocal solo, Irving Gingrich; declamation, R. R. Carr.

The King's Daughters Will Entertain.

Next Friday evening the King's Daughters will give an "S" social, to which the College peoples are invited. An entertainment will be given, after which the company will engage in various games. There will be no charge for admission, but a box will be at hand into which contributions may be put, the proceeds to be sent to H. Caramanian in Armenia.

To College Reader of the Record.

Now that the season of extra buying is here, we wish to call the attention of our readers who live at the College and in Lansing to the advertisements in the Record. Lansing merchants and professional men have patronized the Record very liberally. They are all representative parties, and all reliable. We trust that readers of the Record will, so far as possible, reciprocate by patronizing our advertisers. It will be appreciated by all concerned.

An Ohio fruit grower has originated a grape which he says will hang on the vines six weeks after ripening. This would be a good variety to raise on the "Hort."

A study of women will disclose that every apple on a sweet apple tree is not, necessarily, a sweet apple. 

Smithers Institute for January and February.

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News from Graduates and Students.

C. E. Meyers, '96m, expects to make a trip into Texas this winter.

Guy L. Stewart, '95, is the efficient teacher of sciences in the Lansing high school.

Prof. W. O. Hedrick, '91, will probably start for home next Thursday. He expects to be at M. A. C. by the 25th.

J. W. Michen, who '96m, is in Grand Rapids working for the Grand Rapids School Furniture Company. He lives at 59 Alpine avenue.

Wahye Matsura, '95m, has been elected professor of mechanical engineering in the Imperial Technical College of Japan. His address is Tokio Kogio Gakko, Aia Kusa, Tokio, Japan.

W. K. Sagendorph, '97, of Jackson, was in the city on professional business Saturday. In the evening he visited his old society, the Her­perian. He speaks very enthusiastically of his success.

Supt. C. L. Bennis of Ionia, was at the College Saturday on business. Among other things, he was making plans for the annual M. A. C. reunion to be held at the time the State Teachers' Association meets in Lansing.

C. J. Foreman, '94, superintendent of Centerville schools is planning another debate between Centerville and Mendon high schools. In a recent letter to a friend at the College he says: "I regard my position as an excellent one, but I am satisfied and hope when I get fitted for it, I shall be able to do better. I see Earl Palmer, Tom Major, E. G. Ovendoll, and other M. A. C. men very often. We get together and review the old times, and one of the war stories would surprise even you."

Natural Reforestation.

Two numbers of Garden and Forest, those of November 3 and 24, contain articles on "Natural Reforestation on the Mountains of Northern Colorado," from the pen of Charles S. Cran dall, '93, professor of botany and forestry in the Colorado Agricultural College. It seems that there, as with us in our eastern counties, forest fires are numerous and very destructive. After a fire it takes five or six years before trees of any kind appear; then comes a struggling growth for several years, another fire, and nature must start all over again. The last paragraph in Professor Cran dall's article is as follows: "Natural processes for reclaying these denuded areas appear from our observations to be very slow; but, unostentatious, the task would in time be accomplished. The trouble seems to be that the destructive agency of fire, let loose by the carelessness or viciousness of many, years and decades rather than Nature can build up, so that, instead of advanc ing toward a second extended forest area there is a constant retrograde movement. Fires of greater or less magnitude occur every year, and it seems likely to be until the greater part of a comparatively few years when the whole region, except in much-favored spots, will be stripped of its forests."

Women wish for long life, but never for old age.—Pack.

College and Exchange.

U. of M. football men say alumni coaches are a success.

Yale has challenged Cornell to row on the Thames next June.

The Harvard "varsity nine" will begin light practice in the cage soon after the holidays.

You can lead a horse to water, but you cannot make him drink; you can ride your little pony, but you cannot make him think.

Ann Arbor students will ask the Board of Regents to build a cage in which the base ball team can take winter practice.

Chicago, Beloit and Minnesota will publish books of college songs. Frank Hodgman, '62, is now publishing a volume of M. A. C. poems which will include several college songs.

Georgia has done away with football in the colleges of that state, and South Carolina has forbidden the existence of Greek letter fraternities in all educational institutions receiving pecuniary aid from the state.

There is a plan now under consideration to consolidate Harvard University and the Massachusetts Institute of Technology, which would make one of the largest uni versities in the world, with a total of about 6,000 students.—Ex.

Daily newspapers are now published by students in nine colleges and universities of the United States. Yale, Harvard, Cornell, Prince ton, Brown, Leland Stanford, Tu­dor, University of Pennsylvania, and University of Michigan.—Ex.

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