

# The M. A. C. Record.

VOL. 3.

LANSING, MICHIGAN, TUESDAY, NOVEMBER 23, 1897.

No. 11.

## Thanksgiving Day.

Wake, Oh Echoes, from the distance,  
Lend us of thy best assistance;  
Rouse to make the woodlands ring  
With the praises which we bring.

Day of sweet and peaceful beauty,  
Day of rest yet solemn duty,  
Day of lofty thoughts, expressing  
Gratitude for every blessing.

Day when love seems freest flowing,  
When the left hand, though unknowing,  
Aids the right hand in bestowing  
Needed blessings through the land.

Day when thoughts expressed or hidden,  
Form in thanks e'er they are bidden;  
Where we pause to think that heaven  
All our happiness has given.

Day of thanks, Oh draw us nearer  
To our Savior. Make us dearer  
To the one who, always sending,  
Is in love now o'er us bending.

May our voices praise forever  
Him whose bounty faileth never,  
And who answers as we pray  
On this glad Thanksgiving day.

STUDENT.

## Professor Weil Remembered.

Professor Weil has been made the recipient of a valuable present from the Mechanical Engineering class of '95. That it was a complete surprise to the Professor is shown by the fact that it took him three weeks to find out where the instrument came from. About four weeks ago he received a neat case about three feet long, which he discovered upon opening contained a Thacher's Calculating Instrument. Supposing the instrument had been sent here by the makers for trial, or that it had come by mistake, he did not remove it from the case, but put it aside to await the letter which he supposed would follow. No letter came, and last week he took the instrument from its case. What was his surprise to find on the bottom a silver plate on which was engraved his name, a few words of regard from the class, and the names of the donors, Messrs. J. P. Churchill, W. J. Goodenough, F. Johnson, H. F. Lake, H. R. Parish, and R. L. Reynolds. It is needless to say that Professor Weil appreciates the regard which prompted these young men, two years after graduation, to present him such a valuable testimonial.

## Cheese Making.

Next Monday twenty new students will begin work at M. A. C. These are the special course students in cheese-making. Our accommodations made it necessary to limit the number to twenty, so that several applicants for admission had to be refused. The finishing touches are being put on the north basement room in the Agricultural Laboratory, which will be used for the practical work in cheese-making. The southeast corner room will be used for a curing room. Through the kindness of the Condensed Milk factory we are enabled to procure milk from some of their patrons.

Mr. E. L. Aderhold, of Neenah, Wis., has been secured as instructor in cheese-making, and is expected here tomorrow. Mr. Aderhold was

for two years instructor in cheese-making in the University of Minnesota, and for several years inspector or cheese factories in Wisconsin.

Besides the practical work in cheese-making these special students will have lectures on dairy chemistry under Prof. F. S. Kedzie, business methods under Instructor G. H. True, and elements of bacteriology under Prof. C. E. Marshall.

## A Superior Mechanical Course for Little Money.

G. A. Goodenough, '91, a teacher of six years experience in Illinois University and other institutions of learning, and now professor of mechanics at Scranton, Pa., has a good word to say for the mechanical course at M. A. C.

"To the young man of mechanical turn of mind, the Michigan Agricultural College offers many advantages. The Mechanical Course given at the College is equal to that given in the most pretentious eastern universities; in fact, it is superior to that given in many colleges because more attention is paid to fundamental principles and less to expensive and showy equipment. The young man who has his own way to make in the world cannot do better than attend the M. A. C. He will there obtain a preparation in the principles of mechanics, which underlie all the engineering professions, so that with a little additional study in special lines he will be capable of filling a good position in the mechanical, civil, or electrical fields. The M. A. C. is especially suited to young men of small means; no person need be barred from taking a course from lack of funds. I know of no place where a good education can be obtained for so little money."

## Football.

It now appears that the Kalamazoo football team cancelled its date with us in order to play a game with the D. A. C. in Detroit. Possibly they can afford to break their word with colleges in the M. I. A. A. Their long-standing and honorable membership in the association may give them this questionable privilege, but it doesn't look well in a lot of theological students.

The M. A. C. eleven had a good practice game Saturday afternoon with the Lansing city team. During the first half our boys punted several times so as to get practice in defensive work. In the second half they assumed the offensive, and rapidly ran the score up to 28 to 0. Russell was in the game for the first time since his injury at Olivet. In the first half he played full-back, and showed good punting ability. In the second half he played his old position at end, and made good gains.

On the campus Saturday afternoon the Harrison Hall freshmen, agriculturals on one side and mechanicals on the other, played a game of football that, judging from the score, was quite up to the Harvard-Yale standard; neither side scored.

## Concerning Mushrooms.

For over three hundred years the inhabitants of France, Germany, Russia and Italy have been familiar, through popular tradition, with the edible mushrooms of Europe. For weeks together the sole diet of thousands consists of bread and mushrooms, while those not eaten fresh are dried or preserved in oil, vinegar or brine for winter use. In the large cities of Italy since 1837 there have been appointed inspectors of fungi. In the city of Rome alone the tax returns show that tons are brought in yearly, amounting in value to over \$20,000.

Fifty years ago Dr. C. D. Badham, an eminent English physician, published one of the first popular, as well as scientific, treatises on this subject, entitled, "Esculent Funguses of England." In that work occurs the following statement: "Whole hundred weights of rich, wholesome diet rotting under the trees; woods teeming with food and not one hand to gather it; and this, perhaps, in the midst of poverty and all manner of privations and public prayer and imminent famine." This statement is as true of the United States to-day as it was of England half a century ago, leaving out the famine.

During the past hundred years botanists have described over a thousand kinds of mushrooms; of these two hundred are fit for food. Shall we refuse to supply our tables with the highly flavored and nutritious sorts within our reach because less than a half dozen kinds belonging to a single easily recognized group contain a deadly poison? The "deadly Amanitas" contain a narcotic alkaloid which affects the system in from eight to fifteen hours after the fungus is eaten, producing symptoms much like those due to opium poisoning. Fortunately the medical profession has found out an antidote which if taken in time will destroy the poison (amanitine). It is atropine or belladonna. A few other mushrooms contain acrid emetic properties which cause immediate vomiting after being eaten, thus seldom producing fatal results. These poisonous sorts, especially the amanitas, may be easily recognized and avoided.

Mushrooms are considered by competent authorities to be nearly the equivalent of butchers' meat in food value. From June to November there may be gathered on the College campus and in the adjoining woods and fields a succession of mushrooms of excellent quality.

There are now in the College collection over fifty sorts, collected near by, which may be safely used for food. The aspiring fungus eater must be conservative, learning carefully to distinguish each new toadstool that he ventures to test, extending his knowledge of well known and tested sorts till he is able to recognize his favorite kinds, in all their varieties.

Since the publication of the splendid work on "Our Edible Toadstools and Mushrooms," by the artist, W. Hamilton Gibson, and the late report of C. H. Peck, state botanist of New York, be-

sides bulletins by Atkinson, of Cornell, and others, there is arising a widespread interest on this subject. Mycological clubs have been formed lately at Grand Rapids and at Flint, and efforts will be made during the winter to organize a club of the enthusiastic mycophagists in Lansing and at the College.

C. F. W.

## Many Are Coming Again.

Young men thinking of taking up a course of study in any college like to know what other young men who have been there think of the institution. Young men who are thinking of taking a short course at the Michigan Agricultural College this winter, will be interested in reading a few of the many letters we have received from those who attended the short courses last winter:

"Regarding my opinion of the special courses at M. A. C., allow me to say that for the young man who cannot leave the farm for a more extended time, these courses offer instruction that is intensely practical; opportunities for research that are invaluable; and associations ever to be remembered."

P. H. DAVIS.

St. Johns, Clinton County.

"I cannot speak too highly of the special courses given last winter. The dairy course which I took helped me greatly along that line, and I would advise any one who cannot take a full college course to take advantage of the special courses. I expect to take the course in cheese making this fall."

F. W. BURT.

Ransom, Hillsdale County.

"I must say that I was well paid for all the trouble and expense I went to in attending the special winter course in fruit, and I think it a great opportunity for any young man who is desirous of taking further study and who has not the means or time for a four years' course. I hope to study stock raising this winter, as I practice mixed farming."

EDWARD WRIGHT, JR.

Pearline, Ottawa County.

"My time and money were well spent in taking the dairy course last winter. The profit I received, for so short a time, was great, and beyond my expectations. If I can arrange my work, I will take the creamery course this winter."

L. W. SIBLEY.

DeWitt, Clinton County.

"I believe that the short winter courses which the College is giving are a good thing for young or middle aged men who cannot take a full course. I took the live stock course last winter, and was well paid for my time and money."

J. L. CARTER.

Lake Odessa, Ionia County.

"I can say that the course I took in buttermaking has been of great value to me. Have had several positions offered me since. You may put me down for the cheese course."

Mulliken, Eaton Co.

W. H. ALLEN.

A western rural paper, giving a list of the presents received by the newly married couple, states that "from Aunt Jane" was received a card-board and crewel motto, "Fight on, fight ever."—*Harper's Bazar*.

In Vassar they call gum an elective, because one needn't take it unless she chews.—*Ex.*



## THE M. A. C. RECORD.

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MICHIGAN AGRICULTURAL COLLEGE.

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For various reasons THE M. A. C. RECORD is occasionally sent to those who have not subscribed for the paper. Such persons 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.

PREACHING SERVICE—Sunday afternoons at 2:30 in the Chapel.

Y. M. C. A.—Regular meetings Sunday evenings at 7:30 and Thursday evenings at 6:30. C. W. Loomis, President. E. M. Hunt, Cor. Secretary.

Y. W. C. A.—Weekly meetings for all ladies on the campus, Tuesday evenings at 8:00, in Abbot Hall. Sunday meetings with the Y. M. C. A. Miss Clara J. Stocoun, President. Miss Ella Phelps, Cor. Secretary.

KING'S DAUGHTERS—Meet alternate Wednesdays. Mrs. J. L. Snyder, President. Mrs. W. Babcock, Secretary.

NATURAL HISTORY SOCIETY—Meets second Friday of each month in the Chapel at 7:00 P. M. T. L. Hankinson, President. O. W. Slayton, Secretary.

BOTANICAL CLUB—Meets Monday evenings at 6:30 in the Botanical Laboratory. B. Barlow, President. Miss Marie Belliss, Secretary.

SHAKESPEARE CLUB—Meets Wednesday evenings at 7:30. Dr. Howard Edwards, President.

COLUMBIAN LITERARY SOCIETY—Meetings every Saturday evening at 7:00. Fourth floor, Williams Hall. R. E. Morrow, President. F. E. West, Secretary.

ECLECTIC SOCIETY—Meetings every Saturday evening at 7:00, Fourth Floor, Williams Hall. W. J. Merkel, President. Elton Bailey, Secretary.

FERONIAN SOCIETY—Meetings every Friday afternoon at 1:00. West Ward, Wells Hall. Fay Wheeler, President. Ella Phelps, Secretary.

HESPERIAN SOCIETY—Meetings every Saturday evening at 7:00, West Ward, Wells Hall. J. B. McCallum, President. M. H. Hammond, Secretary.

OLYMPIC SOCIETY—Meetings every Saturday evening at 7:00, Fourth Floor, Williams Hall. A. M. Patriarche, President. C. H. Chadsey, Secretary.

PHI DELTA THETA FRATERNITY—Meetings every Friday evening at 7:30, East Ward, Wells Hall. A. B. Krentel, President. H. B. Clark, Secretary.

UNION LITERARY SOCIETY—Meetings every Saturday evening at 7:00, U. L. S. Hall. F. V. Warren, President. Paul Thayer, Secretary.

TAU BETA PI FRATERNITY—Meetings on alternate Thursday evenings, Tower Room, Mechanical Laboratory. F. V. Warren, President. C. A. Gower, Secretary.

CLUB BOARDING ASSOCIATION—E. A. Calkins, President. J. B. McCallum, Secretary.

M. A. C. ATHLETIC ASSOCIATION—F. V. Warren, President. E. W. Ranney, Secretary.

### Why the Special Courses?

The Agricultural College idea of an education for the farmer is, according to law, "a thorough theoretic and practical training in those sciences and arts which bear directly upon agriculture," and the application of these sciences to practical agriculture. Four years is deemed none too long to complete such a course as will cover this ground and secure such other training in language, mathematics, and other branches as should be given to one who expects to become an intelligent citizen of the State.

The board and faculty, however, desire to make the College as useful as possible to the interests of agriculture and to the people of the State. They know that there are hundreds of young men in the State, who, for various reasons, cannot take advantage of the generous endowment by the State and nation and take a four years' course, but who are intelligent and enter-

prising, anxious to know more about the business of farming, and especially of the various branches in which they may be specially interested. The belief exists that the College can help such young men by these short courses in a way that will benefit them educationally and also financially, and that it can in so doing greatly enlarge its usefulness.

These young men have learned on the farm the ordinary elements of good farming, and are familiar with the operations of the farm. They have knowledge of the general methods of stock-breeding and feeding, of orcharding, or of vegetable gardening, as their tastes may have led them. They have, perhaps, had only the advantages of the district school, but are bright, intelligent, quick to see and accept improvements in methods of work. They expect to be farmers or fruit growers, stock feeders or dairymen, and desire to know the best methods of carrying on their work. They have not time to learn any more of language or "figures," much as they may desire such knowledge, but they do have a desire to know such facts as will make them more successful in their business.

It is for young farmers of this class that these short courses in live

vegetable gardening or floriculture. These will find their opportunity here. The work will duplicate in detail the actual work in the factory, the fruit garden and green house, and the diligent student will go out equipped for skillful work in these lines.

The College expects through the special courses to benefit not only these young men, but through them many others with whom they will come in contact. It expects also to benefit the farming community in which they may reside, by enlarging their ability and therefore their influence in establishing better methods in agriculture and in manufacturing agricultural products.

I. H. B.

### The Special Course in Live Stock Husbandry.

Our illustration shows last year's special course students in "live stock husbandry" judging stock. So successful was the work of this course last year that we have determined to offer a similar course this year during the first six weeks of the winter term. A few words about the aim and scope of this course may not be out of place.

Very naturally the dominant



STUDENTS JUDGING STOCK.

stock, home dairying, fruit growing, and gardening, are arranged. These young men will come here and for a few weeks hear from competent instructors the methods of applying in actual practice the discoveries of science, relating to agriculture in general, and to special branches in particular. They will be taught, not only that certain methods are successful, but why they are so. They will not be bothered with technical terms, but furnished with plain facts in simple language.

They will, during their stay at the College, come in daily contact with educated men who will constantly lead them into new lines of thinking. They will also have the advantage of a large library, and will be directed in the selection of reading. Six weeks of this kind of work will not only give an opportunity to learn many facts, but it will give them a broader outlook, and create a desire for more study and larger information which may be acquired afterwards by careful reading and observation.

Another class of young men desire to prepare themselves in the shortest possible time for earning a comfortable salary as skilled workmen in such lines as cheese and butter making, or in fruit growing,

feature of the course is stock judging, under which head is given instruction in selection from a flock of animals the best and most typical specimens. The history of the various breeds receives attention, and the methods of the most skillful breeders are carefully expounded. The student has daily practice in the barn, score card in hand, in the development of that peculiar ability to recognize at sight the characteristic qualities of the best animals, that sixth sense which is the necessary ingredient of the successful stock breeder.

Along with the work in stock judging, lectures and demonstrations are given in the management of flocks and herds, their care in the stall and the principles of breeding. The student is allowed to elect either horses, cattle, sheep or swine as the class of animals to which he will give his chief attention. Three hours daily for six weeks are devoted to these two topics.

Practical work at the barn in actual stock feeding comes daily. Lectures and demonstrations are given in the class room to emphasize and explain the matters taught in the actual work. The calculation of rations, the relative values of the various kinds of feed found in the

State, preparation of food stuffs, stall fixtures, stable management, and other details of the theory and practice of stock feeding will receive as much attention as the time will permit.

A course of thirty lectures on the anatomy of domestic animals, hygienic rules and suggestions as to the treatment of common diseases will constitute a most valuable feature of the course.

At least one hour a day is devoted to the botany and culture of the cereals, of fodder plants and of meadows. The success of the live stock breeder very largely depends on his ability to grow the feed for his stock economically.

Time will be allowed for the student to carry forward in the library of the College a systematic course of reading on such topics as shall be selected by the student after advising with the proper teacher. The College library contains 20,000 volumes and 4,000 pamphlets, and the use of it should be a valuable part of the course.

### The Crown Gall.

PROF. L. R. TAFT, HORTICULTURIST.

During the past three or four years many reports have been received of injury to fruit trees by galls upon their roots. While nearly all our fruits are thus affected, the peach seems to be particularly subject to attack, and in some States, the crown gall, as it is called, is regarded as a greater menace to the peach industry than any other disease or insect. For the most part the trees, upon which the galls have appeared, came from nurseries in other States, but they have been found in Michigan nurseries. Although not confined to any one kind of soil or to any particular location, the galls are most common upon trees growing in soils rich in humus and particularly in warm, moist seasons. The name "crown gall" is given because it exactly describes this form, as they are most commonly found at the crown or collar of the tree, and because it is necessary in some way to distinguish it from other galls, as there are several forms, all of which seem to be distinct from the crown gall and whose causes have been determined. Among these are (1) the swellings due to the attacks of plant lice of various kinds; (2) the nematode galls, which are small nodules found on the roots of plants growing in wet soils; (3) the club-foot swelling of the cabbage and turnip, which is due to the work of a slime mould; (4) the so-called mechanical galls, which often appear at points where the roots have been injured in some way and (5) the small tubercles which are found on the roots of plants of the clover tribe. The crown galls have been ascribed to each and all of these causes except the first and last, but there is no direct evidence that any one of them has to do with its appearance, although it often happens where the soil has been dug away from roots of trees to determine the absence or presence of the galls, that later on galls have appeared at points where the roots were injured, although none were there when the trees were first examined. Swellings of this nature are also found at the ends of roots which have been cut with a tree-digger, and this has led to the supposition on the part of some persons that the



disease is contagious and that the germs are carried by the tree-digger from diseased to healthy trees. Crown galls have been attributed to the action of frost, which has ruptured the tissues and the plant has formed a callus in endeavoring to repair the injury, while others believe that it may be due to the presence of any irritant.

The knots develop rapidly and at first are of a soft, cheese-like nature and of a whitish color. As they become older and larger, the surface is roughened, the tissues hardened, and they take on a brown color. While they are most common at the crown, where they often reach a size two or three times as large as that of the tree itself, they also appear as small nodules upon the roots and occasionally upon the stems of the trees. They can generally be readily detached from the roots and as they become older the tissues soften so that they can be easily crumbled in the hand. By the presence of the knots upon the roots the movement of the sap is impeded, and the growth of the trees checked. The disease is most common in the nursery, and it is generally possible to detect it there by the appearance of the trees before they are dry, as the foliage takes on a yellowish color, giving the trees a sickly appearance.

Although there is no direct evidence that the crown galls on all kinds of trees are of the same nature, or that trees of one kind can convey the disease to those of another or even of the same species, their appearance indicates that they have much in common. Professor Selby of Ohio, reports instances where peach trees planted in a garden among raspberries, have been destroyed by galls, which were very numerous upon the raspberry plants, and Professor Hedrick, in his capacity as State Inspector of Nurseries, found a few trees growing in one nursery that were badly infected, and on inquiry learned that the land had been used for raspberries previous to the planting of the peach pits. While this looks as though the disease were contagious, it is known that trees are often attacked that have grown upon land that has never been used for either nursery or orchard purposes, which indicates that other causes may produce the galls. Professor J. W. Toumey (M. A. C. '89) who finds the disease very troublesome in Arizona and reports it to be the "direct or indirect cause of the death of more of our young fruit trees than all other causes combined," gives as his opinion that "proper irrigation and cultivation have much to do in retarding its development." Whatever may be the cause of the disease, and whether or not it is contagious, experience shows that trees affected with crown gall at the collar or on the trunk, are of no value, as although they may live for several years, they seldom, if ever, bear fruit of any value, and in most cases a nursery tree with a large gall will never make much growth. Sometimes there is no swelling at the collar, but small, round tubercles are found upon some of the side roots, and while many believe that even though they are cut off the galls are likely to reappear, this hardly seems probable. If the trees are free from galls when planted in the orchard, there will be little danger of attack, but if such should

happen, the swelling should at once be cut off and the surface treated with Bordeaux mixture, or other disinfectant.

From our present light upon the subject, we are safe in recommending all nurserymen to destroy all trees upon which galls are found, and all purchasers of nursery stock who receive infected trees to refuse to accept them, or at any rate not to plant them.

#### At the College.

A purse and pocket rule have been found and left at the secretary's office.

Mr. E. S. Good has been entertaining his father, Mr. John Good, and Mr. A. J. Cox for several days.

The dissecting subject being used by the seniors in veterinary science was donated by E. Carl Bank, '84.

Mrs. Howard Edwards entertained Mrs. Shakespeare and a number of her friends Thursday afternoon.

Mrs. P. B. Woodworth gave a two-table progressive whist party in honor of Mrs. Shakespeare Friday evening.

"Pete" (at Junior class election) — "Ten dollars is my price; anybody can buy me for ten dollars."

Bertha—"Oh you're too cheap."

The street cars ran up on the grounds Friday night, but did not begin making regular trips until today. Cars now run every half hour.

The Y. M. C. A. and Y. W. C. A. will hold a Thanksgiving service in the association rooms Thanksgiving morning at eight o'clock.

Mrs. Shakespeare and little daughter, Mildred, of Kalamazoo, have been spending a week at M. A. C. as guests of Mrs. Shakespeare's sister, Miss Lucy Monroe.

Professor and Mrs. P. B. Harwood, Barre, Mass., mourn the loss of their elder daughter, Irene, who died Wednesday, November 10, of diphtheria.

Mr. J. Eugene Snook, Woodbine, Iowa; Miss Nellie M. Snook, Rochester, Mich.; and Miss Celia Snook, Jackson, were guests of B. D. Snook, '01, last Thursday.

The subject for Y. W. C. A. Wednesday evening, November 24, is "Our gifts from God; our gifts to God." Lesson to be found in Romans 8: 26-39. Leader, Miss Ella Phelps.

After nearly a week of noon-hour class-meetings the Freshman class succeeded last Tuesday in electing the following officers: President, J. Hackley Skinner; vice-president, Miss Grace R. Melton; secretary, Miss Fleeta Paddock; treasurer, R. M. Lickley; sergeant-at-arms, E. J. Smith.

#### VETERINARY COLLEGE.

The Veterinary Department of the

Detroit College of Medicine.

is now fully equipped, under the supervision of Prof. E. A. A. GRANGE, V. S., late professor of Veterinary Science at the Agricultural College. This department is prepared to furnish instruction in the science of medicine as applied to dumb animals. **Ample Hospital Accommodations** are provided for **horses, cattle, dogs** and other domestic animals. Send for catalogue to

PROF. GRANGE, Principal.

Or, Dr. H. O. WALKER, Secretary.



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R. H. STOCUM, College Agent.

NOTICE

No trading stamps given on this special sale.

C. D. W.



### News from Graduates and Students.

G. E. Ewing, '92, is farming at Ross, Kent county.

A. E. Wallace, with 99m, spent Sunday at the College.

A. C. Cole, with '96, is teaching school at Victor, Colorado.

George W. Williams, 96m, is with the Kalamazoo Velocipede Car Co.

Harry W. Tracy, '94, is traveling in Illinois for the Leonard Seed Co., of Chicago.

Gilbert Nichols, with 95m, is a real estate dealer in Battle Creek and is doing well.

The marriage of C. B. Cook, '88, to Miss Addie McGilvra, with 91sp, will occur this evening.

Stephen W. Tracy, '96, spent Sunday at M. A. C. He is on his way to Colorado Springs, Col., to spend the winter.

A. T. Cartland, '97, was at the College a few hours last Monday. Mr. Cartland is preaching near Danby, Ionia county.

Dr. Albert E. Bulson, '88, is managing editor, and Dr. Fred J. Hodges, '84, associate editor, of the *Fort Wayne Medical Journal*.

Maurice P. Carney, with '94m, is visiting a few weeks at his home in Battle Creek. He expects to go to England soon with headquarters in London, to sell American machinery.

The wedding of Burton A. Bowditch, with '96, and Miss Everna Watkins, was solemnized at the home of the bride's parents, Allen, Mich., November 10. The young people will begin keeping house on the farm of Mr. Bowditch, in Jefferson.

Two stories by Ray S. Baker, '89, are mentioned in the *Youth's Companion's* annual announcement for 1898. Under the head of "Brave Deeds of Engineers," is a story by Mr. Baker entitled "On Crow Grade." The other story, "While the 'Two Sisters' Burned," is under the head of, "Narrow Escapes of Firemen."

Prof. U. P. Hedrick spent an evening last week with Leander Burnett, '92, at Wayland. Mr. Burnett is at present in the employ of the State Telephone Co. He has recently invented and had patented in the U. S. and Canada, a bottle from which the cork cannot be removed without disfiguring the bottle. Such an article has long been in demand to prevent refilling patent medicine and liquor bottles with imitations.

### Colleges and Exchanges.

"What shall I do? I promised to take a girl to the game, and I can't get a ticket anywhere."

"Why not get a press ticket?"—*Ex.*

To the senior young women and Prof. U. P. Hedrick the *College Barometer* gives credit for organizing permanent literary societies at the Oregon Agricultural College.

Within a year ground will be broken at the University of California for 28 or 30 new buildings. They will be of stone and will cost several millions of dollars.—*Ex.*

A green little boy in a green little way,  
A green little apple devoured one day,  
And the green little grasses now tenderly wave

O'er the green little apple boy's green little grave.—*Ex.*

A national university under government control is to be established in China. The faculty will consist of foreigners, and the first president will be a former tutor of Li Hung Chang.—*Ex.*

The youngest college president in the United States is said to be J. H. Raymond, president of the University of West Virginia. He is twenty-nine years old, and at the age of nine was a Chicago news-boy.—*Ex.*

"The Essay and the Oration Contrasted" is the subject of an article by Prof. J. B. Horner in the October *College Barometer*, in which the writer has most ingeniously worked out a subject that puzzles many students.

### Farmers' Institutes.

During the month of December fifty-six farmers' institutes will be held in the Lower Peninsula. This includes thirty-three short or one-day institutes. Several new names appear on the list of state speakers, which includes the following: William Ball, W. J. Beal, J. H. Brown, with '87, K. L. Butterfield, '91, C. B. Charles, '79, I. N. Cowdrey, E. A. Croman, R. D. Graham, A. P. Gray, Mrs. Jones, R. M. Kellogg, Mrs. Kennedy, C. C. Lillie, '84, Mrs. Mayo, R. Morrill, H. W. Mumford, '91, A. E. Palmer, L. J. Post, Mrs. Rockwood, C. D. Smith, G. A. Waterman, '91.

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