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Erwin H. Forbush

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PUBLISHED MONTHLY DURING THE COLLEGE YEAR
BY THE STUDENTS OF

THE CONNECTICUT AGRICULTURAL COLLEGE

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Editorial

This issue of our paper finds us well, or otherwise, started on the new year—this year of 1910. What our plans, our aims, and our ambitions are, no one knows but ourselves. How strong our fight for these ends, how persistent our struggle, depends on the force, the will power, which we bring to bear upon our efforts.

The result of our efforts, the success or failure of plans for the coming year, will be most forcibly impressed upon the individual who formed them. But, to a large extent, larger perhaps than we know, our failures are apparent to our associates, to all with whom we are brought into daily contact. 'Tis not a pleasant experience to fail, not very satisfying to one's pride, to admit, even to himself, that he has, simply from lack of push and perseverance, failed to accomplish things. But it is far more humiliating to have others know about it, to have it brought to your attention by word or look of those about you, that you have not made good. Admitting this, then, as doubtless all readers of this column will, permit us to offer, as a result of our failures, a word of advice for 1910:—Do not attempt too much; do what you can; and do it so that to your own conscience you will be able to say, "I did my best."

It is with gratitude and with a feeling of relief as well, with which we learn that we are soon to have an infirmary or temporary hospital. Heretofore there has been no place in which a student, ill with a contagious disease, might be isolated. Arrangements are now making for the immediate fitting up of two rooms in the main building to be used as an infirmary. They will be equipped with the furniture and fixtures necessary for the comfort and proper care of students who may be taken ill. Such students will receive care from capable hands. Twice during the fall term was this need made manifest. The sickness and death of Gardner Williams created much excitement and speculation among the students, as several others were reported as coming down with the same disease. These reports, however, proved false. Again, just before the Christmas vacation, Arthur Savage, a day student, was taken sick with diphtheria. A week later, Beebe, one of his classmates, was found to have a light case of the same disease. This, with the presence of several bad sore throats, caused considerable alarm, and, as a result, vacation was declared three days ahead of time and the students went home.
proposed infirmary, to which any suspicious case will be immediately removed, will eliminate all possibility of contagion, either by contact or indirectly, and will fill a long-felt want, or rather, need of the institution.

At this time we recall a remark dropped by one of our instructors in class a short time ago, which created an impression. (Such occurrences, we might add, being very unusual.) It was to the effect that he would not recommend any special machine for the work in question, as he did not wish to act, or appear to act, as an advertising medium for any firm or machine. We understand and appreciate this view. But we think the matter might be viewed from another side. The very fact that he could by no means be induced to act as an advertising agent gives weight to the professor's judgment, which the student in general regards as the opinion of an expert. We are here to learn what the faculty is capable of teaching us in whatever branch we are taking up. If we are studying how to raise fruit, vegetables, or other crops, we wish to know the best methods; we wish to know the best varieties; and we wish to know what machine or other appliance is, in the honest opinion of our instructors, best suited to the production of the crop in question. We are after definite knowledge on these subjects, and we believe that is what we should get. So, then, we hope our instructors will not be backward in giving us what, in their opinion, is the best instrument for, and will give best results in, practical use.

The above space represents the contributions by the student body for this month's issue. We wish to express our sincere thanks to all the contributors, and to express the hope that the time will never materialize when they will have less than this to give.

(Signed) THE LOOKOUT BOARD.

A prophet, it is said, is not without honor except in his own country. That is to say, that among his own friends and acquaint-
ances, where he is best known and understood, the prophet has scant respect, and little credit given him for what he is, for what he says, or for what steps he takes to make his utterances profitable to others. He is, indeed, fortunate if his vaticinations meet only with this negative reward. It is too often the case that his efforts are derided and that he himself is ridiculed; and not infrequently various sorts of reproaches are sent along in his direction. Nay, the unfortunate seer finds all too often that, in the opinion of his friends, he does not possess any prophetical gift at all, and is, therefore, a mere pretender, and, in short, is no more to be regarded than the harmless flags, which may be observed foolishly fluttering in front of the experiment station.

Now the editor is moved to these reflections as he sorrowfully surveys the pains and penalties of the editorial lot. He feels the woe of the prophet unhonored of his fellow-countrymen. He can even sympathize with the steward whose charge it is to supply food for the sustenance of the physical man. For if the food be good, and well cooked, and abundant, which one of us remembers to lay his hand on his stomach and thank the careful purveyor that he has dined well? It should seem that a simple acknowledgment—the only satisfaction the provider asks—might be given. On the other hand, should failure of cook or supplies, by some unforseen accident, mar or straiten the supply, there is no lack of remark. Due attention is paid to all the deficiencies, real and imaginable, and we loudly bewail our emptiness, and ask each other, Brethren, ought these things to be?

Even so, alas, is the fate of the editor. Are there shortcomings to be noted? Verily, we know and recognize them as well as does the Chorus of Indolent Reviewers. We do not need to be reminded of them. And are there complaints? We, too, have somewhat whereof to complain. For we, as editor, are as a mill having no grist to grind. The editor is elected to edit the news of the College; to select for publication the best of the contributions submitted to his judgment. But we cannot, unassisted, make this magazine what we would like it to be; much less what our fellow students desire it to be. We need the assistance and support of all; and it is the absence of these essential elements that causes us to bewail our lot, and to remember with sympathy, the Prophet in his own Country, and the Purveyor of Edibles. We do not want compliments—perhaps we do not deserve them; but we do want articles, to the end that we may duly perform our function as Editor. Hinc illae lacrimae.
Alumni Notes

There seems to be a lack of interest, by the Alumni, in our efforts to broaden THE LOOKOUT. This month's issue was set aside for the Alumni. We hoped to hear from a large number of those to whom the issue should mean so much. In response to invitation asking for material we have heard from a comparatively small number. It must be remembered that the editor of this column depends largely, in fact almost wholly, for his notes upon material given him by graduates of our College. And if this material is slow in coming in, or if none comes, he is handicapped in his efforts to do efficient work. The present editor would like to take this opportunity to thank those Alumni of our College faculty, and a few others, who have assisted so willingly and promptly by giving information from which the notes could be prepared. Of course, we realize that the Alumni are busy men and women. They are at present experiencing those pleasures, and those difficulties in life which we, as students in college, do not experience, but which we expect some day will be our lot. We therefore want to hear from them if we cannot see them and become better acquainted. Everyone wants to hear from his classmates; graduates take THE LOOKOUT largely for this purpose. So we ask the Alumni, at least once a year to tell us where they are, what they are doing, and to give any suggestions which they may have to offer regarding our College paper.

ALUMNI EDITOR.

GENERAL.

The Alumni who attended the meetings of the American Association for the Advancement of Science and of Affiliated Societies, held in Boston, December 27th to January 1st, were: W. R. Coe, '88; C. A. Wheeler, '88; C. R. Green, '95; W. A. Stocking, '95; R. D. Gilbert, '97; B. H. Walden, '99; A. V. Osmun, '00; H. D. Edmond, '00; G. H. Hollister, '02.

C. B. Pomeroy, '90; H. C. Manchester, '91; A. J. Pierpont, '95; H. L. Garrigus, '98; B. H. Walden, '99, and F. J. Ford, '04, were in attendance at the annual meeting of the Connecticut Board of Agriculture in New Haven on December 7th, 8th and 9th.

The Alumni Quartette sang at a meeting of the Ashford Grange held in Warrenville, January 7th.

At the meeting of the Uriel Lodge, No. 24, A. F. & A. M., held in Merrow, Conn., December 18th, the following Alumni were elected to offices: H. L. Garrigus, '98, Master; C. H. Savage, '88, Junior Warden; H. D. Edmond, '88, Senior Deacon; J. N. Fitts, '97, Junior Deacon; E. B. Fitts, '93, Junior Steward. Installation of the above officers took place January 2, 1910.

The following Alumni were elected to offices in Mansfield Grange, No. 64, at its annual meeting held at Storrs December 6th: E. B. Fitts, '93, Master; H. D. Edmonds, '00, Overseer; C. J. Grant, '06, Lecturer; H. L. Garrigus, '98, Assistant Steward; Cora Grant, ex '06, Ceres; C. A. Wheeler, '88, Secretary.
'88. C. A. Wheeler was re-elected Lecturer of the Quinebaug Pomona Grange at the annual meeting in Willimantic, December 4, 1909.

Owing to quarantine C. H. Savage was unable to attend to his duties as Supervisor of Registry of Merit Tests for the College in December. At the present time his oldest son, Arthur, who has had an attack of diphtheria, has so far recovered as to be considered out of danger.

'90. C. B. Pomeroy, Jr., has been elected to the position of ward alderman in Willimantic, Conn.

'93. E. B. Fitts was in Litchfield, December 27th, 28th and 29th, where he tested some animals for Registry of Merit in the herd of Mr. J. N. Putnam. Mr. Fitts has been appointed superintendent of the milk, cream, and butter exhibit at the annual meeting of The Connecticut Dairymen's Association, to be held in Hartford, January 26th, 27th and 28th.

'95. The home of Prof. and Mrs. W. A. Stocking was recently gladdened by the birth of a girl. Mr. Stocking, who holds a very lucrative position at the head of the Dairy Department, Cornell University, made an exceedingly interesting address on the subject, "Relation of Bacteria to the Handling of Milk and Its Products," at the meeting of the New Hampshire State Board of Agriculture held at Exeter, N. H., January 13th and 14th.

'97. J. N. Fitts spent the holidays at his home in East Windsor, Conn.

'01. W. W. Dimock, whose appointment to a lucrative position at the Iowa State College, was chronicled in the Christmas number of THE LOOKOUT, was married in Manhattan, Kansas, on November 27, 1909, to Miss Ruth Atwill Mudge.

'02. G. H. Lamson represented in an unofficial way C. A. C. at a meeting of the International Athletic Association, held at Murray Hill Hotel, New York City, on December 27, 1909. At this meeting were representatives from fifty-seven colleges of the United States. S. M. Crowell, who is in the employ of the Twin Falls Logging Company, Yacolt, Wash., is spending a three months vacation at his home in Middletown, Conn. He was the guest of G. H. Lamson over Sunday, January 9th.

C. S. Fitts, ex. '02, has accepted a position on a newspaper at Staten Island. He began work there January 1st.

'04. At the annual meeting of the Washington Grange, No. 11, held in Washington, Conn., F. J. Ford was elected master for the year 1910.

'05. I. W. Patterson, who is employed by the department of
State Roads, Providence, R. I., was the guest of Mr. H. L. Garrigus, January 1-3.

Ex. '06. G. H. Gallup has resigned his position in Palmer, Mass., and is now staying temporarily with relatives in Woodstock, New Brunswick.

'07. E. M. Stoddard, who has been employed in the Horticultural Department of the College since the completion of his B. S. course last June, was, in December, appointed to a profitable position as assistant to Dr. G. P. Clinton of the Connecticut Agricultural Experiment Station, at New Haven. While here at the College Mr. Stoddard made many friends, all of whom join in wishing him success in the new duties he has taken up. His present address is No. 93 Division Street, New Haven, Conn.

Ex. '07. M. C. Wemett is at the present time in the employ of the Pacific Construction Company, of Portland, Oregon. By the time this publication is in the hands of the reader he will have taken an examination for city engineer work in Portland.

'08. G. M. Stack was recently elected leader of the New Milford brass band.

'09. F. A. Loveland has discontinued his course of studies at Trinity and has entered the employ of the Hartford Thread Co., Hartford, Conn., and intends to learn the business.

Joseph Samuels has secured a position as salesman in the provision department of the National Packing Company at Lynn, Mass. He began his duties December 13th.

Robert S. Griswold, Jr., has forsaken the land of the red onion. Latest reports tell us he is working for his uncle, who runs and successfully manages a large wholesale seed business in Lincoln, Nebraska. Bob will tell you all about it if a letter is addressed to him at 537 South 17th Street, Lincoln, Nebraska. He wishes to be remembered to members of "de gang," and others also.

P. B. Whitehead, supervised for C. A. C., the Registry of Merit Tests in the herds of E. R. Dunn and Thomas Holt, of Southington, Conn., in December.

An incomplete list of Alumni who have visited the College recently is E. P. Brown, '02; E. N. Gallup, ex. '08; G. H. Gallup, ex. '06; G. H. Hollister, '02; Pauline Hopson, '08.

Messages from the Alumni

Editors of The Lookout:—

The Lookout is making steady progress. From experience I know the difficulties of editing and managing a school paper, of
THE LOOKOUT

getting a lukewarm constituency to hand in material, of getting the editorial board well organized to do the work and of getting the individuals to do the work when it has been assigned.

THE LOOKOUT has always been efficient in its treatment of one field—athletics—and the games have been well reported in your columns. Your organization has made great improvement in getting alumni news and we of the alumni who are here have come to expect the regular visit of the alumni editor in search of news and to be prepared for him. The College departments also have been well represented in your columns.

If I may make a kindly suggestion for the improvement of THE LOOKOUT, without seeming to find fault, I should like to. My ideal for the publication is that it should represent adequately College activities in all lines. As it is, notice appears in your columns of what is going on but it is often scant. To illustrate my point, instead of a curt notice that “Mr. Bob” was presented in the College chapel by the Dramatic Club on such a date, there should be a full statement of the cast of characters, of the merit of the players, of out-of-town visitors in the audience, and of other points of interest in connection with the presentation, because for the time being this play is the center of College activity and interest and a fuller treatment by you will be of far greater interest to an alumnus than the real or imaginary trip of some freshman fishing, hunting, or exploring. Similarly, you should treat more fully the church choir, Sunday evening meetings, the minstrel show, the Glee Club concert, the Scientific Club meetings, and occasional lectures given by non-residents.

With congratulations upon your success and best wishes for your continued successful service, I am,

Very truly yours, CHARLES A. WHEELER, ’88.

To the Editors:—

Just a word from the first business manager of THE LOOKOUT. Our first issue was published in the spring of 1896, and consisted of but a single-folded sheet. The present publishing company had the honor of printing the first number. The book form was adopted the following winter when the students undertook to print the paper at the College. Then, as now, I fear, the students volunteered too little material assistance, the bulk of the work falling upon the ambitious portion of the editors. This, in time, drove the publishing back to the printer.

To me, there is always one part of the paper which is of especial interest, and that is the Alumni Notes. I wish there might be more of them, but I do not feel inclined to blame the yearly solicitors for
they have all been good beggars, so we must look to the Alumni and Alumnae themselves for additional information for this department.

To all of the graduates I wish a Happy New Year. As you have enjoyed reading the items of interest concerning the prosperity of your Collegemates, lay aside your modesty and let the Alumni editor hear from you.

Sincerely, J. N. FITTS, '97.

THE FOOTBALL REFORM MEETING.

Anyone interested in College athletics in general, and in football in particular, would have deemed it a pleasure to have been present at the meeting of the Intercollegiate Athletic Association, held at the Murray Hill Hotel, New York, three days after Christmas, if for no other reason than to learn the attitude of nearly a hundred of the leading colleges and universities regarding the game of football and its future.

A number of College presidents were assembled, together with many professors and students, and even the "hired coach" was there, to learn at the earliest possible time what was to be done with the sport which was "meat and drink" to him. It would not have seemed strange to have heard this last named gentleman plead for the life of football, but he had little or nothing to say, for he heard others champion the cause in an abler manner than he could have done.

Chancellor Day came down from Syracuse to say that the game had been a dangerous one, dangerous even to life, and if much of the danger could not be removed, then football must go from the institution he represented; but he liked the game and he would be glad if some way could be found to remove the danger. This, in a way, represented the tone of nearly everyone who spoke. Like a fond father, they were unwilling to repudiate a favorite son.

If the success of the meeting had rested on what it had accomplished directly, it would have been a failure. There were, however, many suggestions made regarding our College athletics, and many feasible changes for the present rules were advocated.

One man said that the enthusiasm with which students entered upon athletics, and the seeming lack of enthusiasm with which they went about their studies, so commonly commented upon by our newspapers, differed not so largely in its degree as in its nature. The enthusiasm of sport was loud and boisterous, while the enthusiasm for study caused many students to work summers and rise early mornings, to do tasks which would bring them money with which they might gain an education. Others felt that our sports were for too small a portion of the student body, that ten or twenty of the strongest men who did not need the athletics so much, were
trained each fall to represent the College, that as many played on
the baseball team in the spring, and the remainder of the students
had no part in athletics; and that if the same process of "weeding
out" was applied to scholarship only ten per cent. of the students
who entered College in the fall would remain until commencement.

I would like to see every student at our College taking part in
some form of athletics, as it would benefit him greatly. As for foot-
ball, we would like to have it without the danger to life, or the
possibility of injury that now exists, but personally, I believe that
so long as the laws of physics are as they are, and reform meet­
ing can hardly change them, two bodies will never be able to occupy
the same space at the same time; nor, as has been true at least since
Sir Isaac Newton's time, will any action cease to be accompanied
by an equal and contrary reaction.

G. H. Lamson, Jr., '02.

Dear Editors:—

We of the Alumni who are, or have been recently, at the old
College on hill, are glad to see the place growing, as is shown by the
unusually large number of new faces, but still, to us, there is a little
something missing: "The Old Familiar Faces." Some, of course,
are still here, but those who are not, are always sure of a welcome
when fortune favors them with an opportunity to come back, to visit
once again "Dear Old Storrs." In looking over the Alumni edition
I shall hope to read a few words from a large number of the Alumni.

Yours,

H. E. Botsford, '09.

Dear Editors:—

I have nothing of especial interest that I can write for your
Alumni number that I know of, but as a member of the 1906 class
and of the Alumni Association I am glad to send a word of greeting
through this issue to the Alumni of the College, wishing them all
success in their work. Also, I would like to send a word of praise
to the Board of Editors for their work on the College paper, which
I think deserves a great deal of credit. Hoping success will be with
you the remainder of the year, I am,

Sincerely yours,

C. J. Grant, '06.

To the Editors:—

Missouri Botanical Garden, St. Louis, Mo.

When in Storrs, some time ago, Professor Monteith asked me
to be sure and leave my pedigree in possession of The Lookout,
which I very faithfully forgot to do.

Briefly, I graduated in '05, and received my degree at Storrs in
'07, coming to St. Louis in July of that year, as plant recorder of the
Missouri Botanical Garden, which comprises an area of about 150 acres,
devoted to a collection of over 11,000 different species, or varieties of plants. The plants are kept thoroughly labelled, and records of accession, names, both common and scientific, together with natural habitats, form an important part of the routine work of a botanical garden. A wide knowledge of plants is essential to their proper care. Practically, all the record and labelling work is under my supervision, and, frankly, it keeps me busy.

For the past year I have been secretary and treasurer of the Engelmann Botanical Club. Am also a member of the St. Louis Academy of Science. At the present time am doing graduate work in Washington University toward a M. S. degree.

While in Storrs I was much interested in the new greenhouses and especially in the large collection of botanical varieties which Professor Gulley has managed to get together in such a short time.

Sincerely yours,  
W. W. Ohlweiler, '05.

To the Editors:—

I want to congratulate you on the success of The Lookout. The paper cannot but help to bind the Alumni closer together, and to build up a favorable sentiment for the College throughout the state. You have my best wishes.

Yours truly,  
Merrill E. Brown, '00.
Derby, Conn.

College Notes

On the sixth of December, President Beach presented a new stand of colors to the battalion. These consist of the National emblem and the State flag. President Beach gave a short speech, telling many facts about flags in general, and then tendered the banners to the Commandant, Major H. D. Edmond. Major Edmond received them and expressed the thanks and appreciation of the battalion, assuring him that the proper respect would always be shown them and expressing the hope that no cadet, either as a student or as a member of the battalion, would ever bring disgrace upon the flags. Inspection of the battalion by the commandant and the president, completed the ceremony.

Force of habit. One Sunday morning, during vacation, several of the students who "stayed over," were loitering after the morning meal, engaged in social conversation. Schutz suddenly glanced at the clock, the hands of which were drawing toward nine. He hastily arose and without a word of explanation began a hundred-yard dash
for Storrs Hall. About a quarter of an hour later one of the fellows went up to Schutz's room and was much surprised to find him industriously engaged in dusting the room. As he looked up and saw the intruder he excitedly exclaimed, "Say, has the bugle blown yet?"

A hitherto retiring young man, who is an inmate of Gold Hall, has now come into the blaze of publicity as a full-fledged member of the Fussers' Club. He is a true Scotchman and likes his locks and Fenns (?).

Keating, while watching the football hop: (Did you ever see one hop?)—"Oh, see de guys in de dress-suit cases."

The Ladies' Circle held a sale of candy and fancy articles at Grove Cottage on December 10th.

Hood lost his pipe the other night. While hunting for it he looked into a mirror and saw it between his teeth. "Well," he exclaimed, mournfully, "another summer in Rockville will put me in an insane asylum."

The junior mechanical class made a trip to the electric power plants at Scotland and Willimantic, Conn., on December 13th.

Scofield is using a lemon pie massage for his complexion.

Reed, in solid geom.—"Is that example hard if you don't know how to do it?"

Hatfield, as we all know, likes to know something about everything. Recently he was asking one of the Hort. students how long it would take to get a fair knowledge about horticulture. He received this reply, "Well, if you want to get much specific knowledge as to how to propagate the various species of plants, it would take at least a year;" whereupon Hattie replied, "Oh, I don't care anything about how to propagate 'em; I just want to know how to grow 'em."

N. I. Smith, otherwise known as the "family nurse," has been at home for some time owing to illness and other affairs. (See Exchanges).

Some time ago one of our fair co-eds bought a pair of shoes in New York and took the next train to Storrs, hoping to reach her
destination before the shoes were out of style. But not taking into
consideration the C. V. and the means of conveyance from Eagleville
to Storrs, she was compelled, upon her arrival, to sell the shoes to
“Barbee,” at a reduced price.

Beebe (night before English exam.)—“I hain’t got no idea what
Teddy will ask us.”

The battalion has been divided into three sections for indoor
drill during the winter term, in order that proper instruction in rifle
drill and calisthenics may be had. Two sections drill in Storrs Hall
each drill day and one section in College Hall. In the latter place
the rifle drill, calisthenics and setting-up exercises are given. In
Storrs Hall the work is confined to the manual of arms, loadings,
firings, facings, etc. During this term, especially, is the need of an
armory most keenly felt. The officers and non-coms this year attend
class in divisions so that each division puts in half their time during
this term on the study of military science. This, together with the
class work which the seniors have previously had, will give them a
thorough grounding in the principles of military science.

Everett Jennings spent a few days at the home of Forbush, in
Westboro, Mass., during the vacation.

What kind of a crowd have we in the fourth section of Storrs
Hall? We hear nothing but trouble and reports of rough-housing
from them. Get wise, fellows, the “Furious Five” will be on your
trail if you don’t brace up.

Heard in the grub hall:—
“Any oranges on the bill of fare?”
“No, but there are some in the serving room.”

Birdie, at serving room—“Two rare plains and a steak.”

John Henry at ditto—“Give me two plains without potato.”

Max, waiting on the girls, got a trifle fussed when he asked
“Nony” what she was drinking, for he got this reply, “A dropped-on,
please.”

Waiter—“Will you have apple, squash, or mince pie?”
Fastidious Boarder—“Yes, if you please.”
Forbush spent part of his vacation with his room-mate, Jennings, at his home in Buffalo.

Owing to the breaking out of two mild cases of diphtheria among the students, and to prevent any further spread of the disease, the Christmas recess was announced three days ahead of schedule time. This necessitated the postponement of all exams until after vacation. They were held, as a result, on Friday and Saturday, January 7th and 8th.

During vacation, when the remaining students were gathered at one table, the following countries were represented: United States, Canada, Mexico, Cuba, Ecuador, Bulgaria, Switzerland, England, Russia, and Norwich.

The editor-in-chief was still enjoying a soft spot in his bed the other morning when a knock was heard at the door. As usual, he called, "Come in." The door opened and in walked a fellow-student, with the following remark: "Hello, For; say, have you got a sewing-pin? I want to sew on a button." After recovering from the spasm of mirth caused by this remark, "For" pointed out the box of needles on the chiffonier. The borrower searched for the box, found the desired object, and then he was seen to be searching for something else. He looked on the bureau, under the bureau, in the clothespress, and under the bed. He was finally brought to by a gentle remainder that the cover of the box, which he was looking for, he held under his arm. A rather sheepish grin overspread his face and he started out of the room. "Oh, I say, Schenk, be sure and get your notes in to-day, won't you?" No answer; the Baron had fled.

Jennings seems to be fond of taking Long walks lately. (N. B.—Is that a pun?)

Miss Cecil Smith, the College elocution teacher, received a letter not long ago, proposing that the Connecticut Agricultural College join a debating league, which will consist of Maine State, New Hampshire State, University of Vermont, Massachusetts Agricultural, Rhode Island State, and should we consent to join, Connecticut Agricultural Colleges. A debating team in a league, such as the one proposed, would be an institution that would give the College great advancement, provided the team made good.

F. L. McDonough has been elected captain of football for the season of 1910. We surely wish "Mac" the best of success and hope
that he may be the leader of a team that will do things to those teams which have done things to us this year. Here's to Mac!

G. F. McArthur of the junior class was recently elected football manager for 1910. We also wish this other “Mac” all kinds of success, and the same to the new assistant manager, S. L. Clarke.

The Eclectic Literary Society wishes to express its deepest sympathy to the relatives of Charles Edward Miller, who died recently in Rockville, at the age of twenty-five years. Mr. Miller entered The Connecticut Agricultural College in the fall of 1903 as a freshman and joined the Eclectic Society the following January. He became a special junior in the fall of 1904 and played end on the football team for that year. His death was due to rheumatism, which was the cause of his leaving College in the spring of 1905. While here he was very popular and his friends will learn of his death with sorrow.

Department Notes

American Association—The sixty-first meeting of the Association for the Advancement of Science was held in Boston from December 27th to January 1st. The general program of the meeting, which also gives the programs of the thirty-two affiliated societies, is a pamphlet of 104 pages. Storrs was represented by Professors Wheeler, Esten, Edmond, and Drs. Blakeslee, Thom, Dox, and Newton. Dr. Blakeslee presented a paper, entitled “The Botanical Garden as a Field Museum of Agriculture;” Dr. Thom, “The Effects of Acidity of Culture Media Upon Morphology in Species Penicillium;” Dr. Dox, “The Development of Catalase in Lower Fungi.” An abstract of Professor Esten’s paper appears below.

EXPERIMENT STATION.

Horticulture—A series of four bulletins, entitled “Apple Growing in New England,” will soon be published by this department. The first of the series, which will appear as Bulletin 61 of the Storrs Station, will treat of the “Apple Industry in General,” and “The Renovation of Old Orchards.” The next number will be “Starting Young Orchards;” the third will be on “Orchard Management,” and the final one will be entitled “Harvesting, Packing, Marketing and Storing Apples.” Since the apple industry in Connecticut seems to
be such a promising one, it is hoped that the department will soon get the authority to join the College extension work by the establishment of several Demonstration Orchards throughout the state. This will be a great help in bringing the College to the farmer.

**Bacteriology**—During the holiday recess Prof. Esten attended the meetings of the American Association for the Advancement of Science, held in Boston, at the Massachusetts Institute of Technology, and the new Harvard Medical School Buildings (Longwood Avenue). He presented two papers before the Society of American Bacteriologists. One was entitled “Observations on the Fermentation of Silage,” and the other “Further Studies in the Variation of the Acidity of Milk.” The following is a brief abstract of the first paper.

“The present prevailing opinion of investigators in silage fermentation is that silage is formed by the action of respiration and enzymes independent of micro-organic activity. From the results of the experiments at the Storrs Agricultural Experiment Station, extending from 1906 to 1910, the conclusions are drawn that the most important changes taking place in silage fermentation are caused by bacterial and yeast activity. The maximum growth of acid bacteria was on the fourth day after filling the silo when over 150,000,000 were found on a gram of silage. The production of acid in the silo, from one to one and a half per cent. of sugar found in fresh silage, followed the same curve worked out by Dr. Otto Rahn, of the Michigan Agricultural College. The manner of acid production differs widely from the curves produced by respiratory and enzyme activity alone. The maximum growth of yeasts was found on the twelfth day after filling, when over 3,000,000 yeast cells were found on a gram of silage.

“The value of the latest results of last fall was due to the fact that the examined samples were taken from the fermenting silage five feet from the bottom of the silo where the actual typical process of fermentation was going on, whereas most of the samples formerly taken were from near the surface where abnormal fermentations always occur.

“From the facts obtained the following theory is suggested: The lactic acid bacteria are present in quite large numbers on the fresh silage, each piece of which is covered with a sweet juice, composed mostly of dextrose sugar. These bacteria convert this sugar into lactic acid. When from 35% to 45% of lactic acid has been formed, the lactic acid bacteria are prevented from growing. But the yeasts continue to multiply until all the sugar is changed into alcohol. The alcohol is subsequently changed into acetic acid.
The evidences for the above serial changes are: First—The juice pressed from fermenting silage in the first thirty-six hours, when examined by the microscope and by plating methods, shows the presence of large numbers of acid bacteria growing in the juice. Second—There are always present a large number of yeast cells. Carbon dioxide gas, alcohol and subsequently acetic acid are formed. Third—Lactic and acetic acids are the principal acids found in silage and average over one per cent. of the total weight of the silage. Fourth—The growth of the lactic acid bacteria and yeasts do not require oxygen, so that what oxygen is necessary for the oxidation of alcohol by acetic acid, bacteria is retained in the air spaces and the juices of the silage.”

During his stay at Boston, Prof. Esten visited the Boston Board of Health Laboratory, where the routine work of examining large numbers of cultures of diphtheria and tuberculosis was in progress. These cultures were collected from patients from all parts of the city. Through the kindness of Dr. Slack, director of the laboratory, some very fine microscope slides were prepared from pure culture of the diphtheria bacillus and given to the College and Station for student demonstration work. Anyone interested may see one of these slides through the microscope at the Experiment Station Laboratory. The form of this organism is more striking than that of any other of the pathogenic germs.

An organism called "Bacillus bulgaricus" is attracting considerable attention. It is associated with other organisms in the preparation of several brands of fermented milks used for medicinal purposes. The milks are employed in combatting the putrefactive organisms in the human digestive tract, which cause autointoxication. From the results of recent investigations the organism seems to be present almost universally, but it requires special culture media and special temperatures for its isolation from other kinds of bacteria. Work will soon be commenced to determine the possibility of getting this organism in this locality.

The class in Dairy Bacteriology is two and-a-half times larger than any previous class. It will be necessary to make two sections, each of which will be able to take only half of the required laboratory work.

DAIRY DEPARTMENT.

This department has received a valuable addition to its breeding stock in the Guernsey bull calf, "Simple Septimus," which is a gift to the College from R. and H. Scoville, of Chapinville, Conn. This calf carries in his veins some of the best blood of which the
breed can boast. He is closely related to "Dolly Dimple," the champion cow of the world for her age, as shown by milk and fat productions. He is also a grandson of "Mashers Sequel," a noted imported Guernsey bull.

Room is at a premium at the dairy barn this winter as all available space is occupied. The inventory shows sixty head of stock of all ages. About twenty of these are yearling and two-year-old heifers, and the prospect is bright for a substantial increase to our working herd, in the near future. Some of the older and less productive cows will be weeded out to make room for the coming generation. The entire herd has recently been tested for tuberculosis and we are glad to report that all animals are entirely free from this disease. Three cows in the herd are candidates for honors in the advanced registry. They are Copper Butterfly, a Jersey; Et11otas Naomi, a Guernsey; and Pietertje DeKol Burke, a Holstein. The indications are that some very good records will be made. Pietertje DeKol Burke has already more than 13,000 pounds of milk to her credit and she still has about six weeks before the year's test is complete.

XXX

Exchanges

Editing a paper is a great thing. If we publish jokes, people say we are rattle-headed; if we don't, we are fossils. If we publish original matter, they say we don't give them enough selections; if we give them selections, they say we are too lazy to write. If we don't go to church, they say we are heathens; if we do, we are hypocrites. If we wear old clothes, they laugh at us; if we wear good clothes, we have a pull. Now, what are we to do? Just as likely as not someone will say we stole this from an exchange—and so we did.

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