

Summer 7-15-1895

The Cadet July 1895

The Cadet Staff

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THE CADET.

NEW SERIES.

VOLUME X.

JULY, 1895.

No. 3.

THE HAWAIIAN REVOLUTION.

Geo. H. Babb.

A GREAT many people have thwarted in her designs, at some asked me, since my return from future period she would give the people the Hawaiian Islands, if Minister Stevens, in my opinion, exceeded them.

his authority when he landed the United States troops, January 16th. My answer to this question is always given in the Yankee way of asking another. "Would you have felt safe in a country whose sovereign had violated her oath and refused to support the constitution, from whence she derives her power? And would you have felt easy about your property and your family, if you had lived in Honolulu at a time when anarchy prevailed?"

It is true that Liliuokalani, Monday morning, before the troops were landed in the afternoon, caused a manifesto, signed by herself and her ministers, to be circulated through the streets of Honolulu, declaring that she had abandoned her intention to secure a new constitution by revolutionary means, and that she would confine herself to lawful methods. This document was ignored at the mass meeting as not being of the least account, for she had declared in person, from the balcony of the palace to the mob assembled, that although

Let me ask another question. What would be the attitude of the people of our own United States if a president should refuse to support the constitution he had so solemnly sworn to stand to and abide by, and try to promulgate another?

A great many in this country have questioned and severely criticised Mr. Stevens for raising the stars and stripes in the Hawaiian Islands. But in my opinion it was a very wise act, one that prevented bloodshed. The protectorate was not established to prevent internal disturbances because of the weakness of the new Provisional Government, but it was because of the attitude of the Japanese, who are a very aspiring people, as we have all learned the past year.

At the time of the revolution there was a Japanese man-o'-war in the harbor and upon the steamer that bore the Hawaiian commissioners to present the cause of annexation to the United States, the Japanese minister sent for another man-of-war. Immediately the Japanese in and about

Honolulu and on the other islands the advancement of civilization. I began to hold meetings and the war-ship in the harbor began systematic gun and boat drills. The Japanese became very offensively independent. Several times we were told that a Japanese uprising and possible massacre was expected. And so strict watch did the United States men-of-war keep in the harbor, that no boat, even a pleasure boat, could venture in the harbor at night without being hailed.

When the Provisional Government was two weeks old the stars and stripes were raised and in a few days another powerful Japanese engine of war appeared off port. It was said by the Japanese that she had arms and ammunition to equip every Jap in the Islands. When Old Glory went up the Japanese man-of-war ceased her drills and the Japs in Honolulu subsided. Business took a start in every line and everybody, Kanakas, Chinese, Japanese, Portuguese, Germans, English and Americans felt safe. For two months Honolulu saw a business activity that it had not seen for months—yes, years—and has not seen since. But the fatal day to all this activity came. Saturday morning, April 1, word was circulated by the Royalists that: "The Flag was coming down." Everybody supposed it was an "April fool." But the Royalists were right. The Provisional troops were once more called to take possession of the different government buildings and to escort the "boys in blue" to the U. S. S. Boston. From the turret of the old barracks I watched at 11 o'clock the old flag reluctantly taken down by a private, for there was no officer on board that American man-of-war but what would resign his position rather than pull down the colors he lives to protect and that he had just raised for

the advancement of civilization. I could see the great crowd that had assembled and I listened to hear the great shout of jollification go up from the people who had been wronged so greatly, and the only sound that I heard was the Major's command, "Order, arms," and the thump of the muskets upon the ground when the stars and stripes were lost to the sight. It was intensely still! And as the multitude broke up and slowly dispersed they possessed not the faces that show forth gladness, but they wore an anxious look, as if wondering what was coming next.

The government continued to grow in strength and was recognized by all the better element as being the best government Hawaii has ever known. Instead of the money being used to support a retinue of royal retainers it was turned to internal improvements. The government had many things to test its strength. Once, for instance, when Claus Spreckles demanded immediate payment of \$100,000. But its greatest test of strength was when the United States revenue cutter Corwin arrived during the latter part of December, 1893, bearing orders from the President of the United States to the Provisional Government to "step down and out," that Liliuokalani might be restored.

How President Dole complied with the orders you all know. It is difficult to say what would have happened had the United States made any move to intimidate or use force against President Dole and his compatriots. But this I saw—a strong building, the ex-royal palace, assume the defensive by being strongly barricaded with sand bags and heavily garrisoned.

As I saw this and recalled to my mind Lexington, Concord and Sumter, I felt sure that I had seen true

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patriots as well as read of them. This trying period was passed and the little government was not lessened in strength, but strengthened, rather, because many who had been indifferent, rather than see Liliuokalani on the throne again would support almost any kind of government. The Provisional Government grew into a Republic and everything sailed smoothly on until the present January, when rebellion broke out. Many have asked me about the late rebellion. Of course I have not been an eye witness, but having lived there through the formation and development of the Government, I have been able to understand the situation and have no doubt as to its outcome. The leaders of the revolt are all men of opium and lottery fame and should be strongly dealt with. That the outcome of the whole thing will be to again strengthen the Republic I have no doubt, for it has called to its support, and will continue to, those who have taken no definite side. In my opinion we shall continue to hear favorable reports from that true American colony in the Mid-Pacific, and at some time not far distant another star will be added to our flag because Hawaii is one of us.



THEORY vs. PRACTICE IN TECHNICAL COLLEGES.

F. E. Kidder, Ph. D.

BEING requested by the managing editor to furnish a short article for *THE CADET*, the writer was somewhat puzzled to know upon what subject to write, there being no course in the college curriculum devoted to his calling, but remembering the doubts and fears which troubled him in his college days as to the practical value of what he was studying, and whether he could not have spent his time to better advantage in an office, he decided to take for his subject, the one given above. Since leaving college, I have heard several complaints from the alumni, especially from the engineers, that the instruction given at the M. S. C. was not practical enough, and that the teachers had not been selected from the ranks of, so called, practical men. I believe, however, that if these persons had given a little more thought to the subject, and were asked to suggest specific improvements, that they would not after all make many changes from the present condition of things. It takes but a few years in any professional office for one to find out that while everything tends to increase his knowledge of the practical side of his profession, no one has the time to assist him in studying the theory and fundamental principles upon which all successful practice must be based. For myself, I long ago came to the conclusion that the four years college training should be devoted to the grounding of the student in the theory or science of the special profession

which he expects to follow, and if it be any of the engineering professions, I believe too much time cannot be given to the study of the higher mathematics, and to teaching the student to resolve elementary formulae to special and specific cases and, so far as the time will permit, to showing how abstruse and complex formulae may be simplified to conform to practical conditions.

True, many of these abstract formulas he will never have occasion to use, and in all probability will soon forget, but the mental training he has received in solving them will be of far greater help to him in successfully solving the practical problems that will come before him, than any amount of memorizing of practical rules and procedure.

The ordinary work that one has to do in any of the industrial professions can be learned without a college education, but the time has come when one must be above the average, if he would attain prominence or worldly success. When it comes to solving problems that have not been met with before, or that are not given in the text books, then if one has not a thorough knowledge of the principles that underlie all such problems, he will be at a loss to know how to proceed, and must call upon the college trained man.

To my mind, it is in this that the really practical value of a college training lies: The college trained man, if he has thoroughly mastered his course, and has learned to reason from

cause to effect, should be able to solve any problem that may come before him, and be able to take the place of a specialist or expert, while the man who has learned his profession only in the office must content himself with doing those things that have been done before, or else *guess* at it, and trust to luck to carry him through, as unfortunately too many do.

I would therefore say to the undergraduate, do not fret at the problems in which you can see no practical application, but make the best use of your opportunities for studying the theory of your profession, for you may be sure that after leaving college you will have little time and opportunity for such study and no such assistance as you now have.

Do not expect when you graduate to know all there is to know, for your education will have but begun, and you will be very ignorant of many practical details, but if you have mastered the problems that have been given you, and have learned to reason, and to have confidence in your reasoning and are willing to be taught in practical matters by the experience of others, even though they may not, like you, have had a college training, you will be able to meet successfully the practical problems that await you, and will have a great advantage over those who have not had such opportunities.

In the profession of architecture, those who have had a college education, certainly rank above those who have not, and I have no doubt that it is so amongst engineers.

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THE CADET.

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THIS year's Commencement exercises will go down in history as being among the most successful ever participated in by any graduating class which has received diplomas from Maine State. In the first place, the weather was perfect, and that goes a great ways in tending to make the week wholly a success. Of course the weather cannot affect the general trend of the Senior's part, making a bright, well written essay out of nothing, or the reverse; but everybody will agree that rain dampens the enthusiasm, causes the fair maidens to appear in less giddy dresses than they would under a clear sky, diminishes the attendance at the exercises and hurts the gate receipts! As the rain did not descend you can infer that the attendance was large, the pretty girls were out galore and the parts were well rendered, etc. As we have said before, the class of ninety-five is an exceptionally fine one, and although a great deal was expected of them in their final efforts as students at Maine State, no one who attended the class day or graduating exercises was disappointed. The characteristic that has followed the class through its course, of introducing new features, was not absent,

by any means, and many slight changes were noticed and appreciated. The class should feel complimented by the fact that four of its members will be retained on the Faculty, which is a marked recognition of their ability.

* *

"THINGS have evidently come our way this year." This was the remark that we heard very frequently during Commencement week, and was an expression that the alumni all seemed to second in regard to our achievements in athletics during the past term. We think that CADET readers will pardon us if this number does "savor of athletics" to quite an extent, because Maine State has done herself proud this year, and we do not want to let her victories go unheeded.

* *

WE made the statement in the June CADET that the likelihood of our track team's coming in better than fourth in the Intercollegiate Field Meet at Waterville was quite improbable, and the idea of coming in second never occurred to us. We either underestimated the ability of our athletes or overestimated that of the two colleges which we beat out. Perhaps it was a little of both. However, an apology is due from THE CADET and we are thinking of starting a coupon department, in order that the track team may be presented with an appropriate souvenir of the surprise party they had in store for us. While our men won no "firsts" they succeeded in winning several "seconds" in events which were made in very fast time.

This is our second year in this branch of athletics, and next season we must make a more systematic effort to put a record-breaking team into the arena that will eclipse the aggregation of whom so little was expected, but yet who did so much.

* *

WITH the end of this collegiate year comes the close of Lieut. Hersey's four years duty as military instructor at Maine State. No better testimonial of the efficient work he has accomplished and the respect that is shown toward him by the students can we give, than to sustain the remarks that were made by the representative of the graduating class, who spoke at the Commencement dinner. His tribute to Lieut. Hersey was an excellent one. The esteem that he is held in by the alumni was aptly shown by the resolutions adopted by them at the meeting of the General Alumni Association. If all the succeeding "Tapes," when they complete their period of instruction at Maine State, are able to look back over their work with as much satisfaction as Lieut. Hersey can, they will be exceedingly fortunate.

* *

OF course the base ball victory is regarded as the most pronounced and it is one we hope to repeat next year. The 1895 pennant will float over the Maine State campus during the coming year, and when we see it flapping in the breeze we can proudly say that it was won on no "fluke," but by good, honest, conscientious work on the field of battle, when our foes were vanquished five times in six. We have no fear of being entirely out of the game of base ball here for some time now, as the nine is made up very equally from all the classes, and we

expect good material in the class of ninety-nine.

* *

WHILE a part of the students realize the importance of our winning a first place cup in the Intercollegiate Tennis Tournament at Portland, we think that the majority fail to appreciate the remarkably good work that was done there by our champions. It was not a walk-over by any means, as the winner of a cup in this tournament must have ability as a tennis player. In the four years history of the Maine Intercollegiate Tennis Association, Maine State has made a good showing with the exception of the second year, and we think that our success in this sport has done considerable in calling the attention of the people of Western Maine to M. S. C.

* *

CONSIDERABLE comment has been aroused by the emphatic stand taken against the introduction of military drills in schools, by so eminent an authority as Dr. Sargent, physical director of Harvard. He asserts that such drill not only does not develop the body, if used without previous physical training, but on the contrary, inclines those taking part to contracted chests and round shoulders. We are of the opinion that however much some of the students at Maine State, who dislike to drill, would like to agree with Dr. Sargent in this particular, they cannot because the results of military drill as seen here in college are far from showing the above named injurious effects which Dr. Sargent maintains take place. Perhaps a question could be raised on the amount of "previous physical training" that is necessary, and whether or no this statement would apply to college men, who, of course, are developed more, physically, than the youths of schools referred to.

EVERYBODY was glad to welcome unusually large—men who had no such a large crowd of alumni back visited their *alma mater* since they this Commencement, and we hope graduated. The enjoyment they experienced in meeting old classmates and that the attendance will increase as the years go by. Particularly was it the relating of reminiscences of their noticeable this year that the number college days more than repaid them of older men who were back was for their visit.



COMMENCEMENT, 1895.

COMMENCEMENT opened with the Junior essays at the Town Hall, Saturday evening, June 15th. The speaking was uniformly good, when it is considered that the speakers had only about three weeks for preparation. Howe's orchestra, of Boston, furnished excellent music. The judges were Prof. H. K. White of Bangor, Rev. F. T. Jones of Orono, and Rev. Mr. Philbrook of Orono.

THE JUNIOR PRIZE ESSAYS.

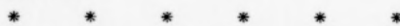
THE PROGRAMME.

Honesty, Music.
Herbert L. Niles, Levant
Hypnotism, Charles Partridge Weston, Madison
Music.
Our Greatest Public Danger, Perley Burnham Palmer, South Bridgton
The Rise of Universities, Gilbert Tolman, Milo
Music.
Shall the Young Man Go West? Perley Walker, Embden
A Plea for Higher Manhood, Frank Leonard Marston, Bangor
Music.
The Doom of the American Indian, John Alvah Starr, Orland
Ancient Philosophy and Modern Thought, Frederick Andrew Hobbs, Alfred
Stepping Stones to Success, Warren Robbins Page, Hampden
Music.

Sunday, June 16.

THE BACCALAUREATE SERMON.

The second event of Commencement was the Baccalaureate sermon, which was preached in the Methodist church, Sunday evening, June 16th, by the Rev. Dr. Summerbell, of Lewiston. The text was found in 1 Cor. 8:2: "Knowledge puffeth up, but charity edifieth," and the following extracts may give an idea of the discourse, of which the subject was: "Religion Essential to a Liberal Education."



Not the mere conning of text books or the absorption of all the information attainable bearing on one's special pursuit will suffice. One may have all that and yet be as dry and juiceless as a trilobite. Dr. Parkhurst, our modern Isaiah, pleads for the heart as an organ of insight, and tells us that "all the bone-dust that is in our graveyards to-day was once in society, but it was not there as bone-dust." Through that parable he would have us see that truth is more than an inventory, and a life of high purpose more than mere intellectual dexterity. This agrees with the teaching of the Master, who declares that the life is more than meat, and the

body than the clothes it wears. Consequently it is not to be felt that an education consists merely in cramming a student for so many semesters with so much knowledge. Education is something grander and higher. It is the expanding of a man's noblest powers. It is the building up of character and the illumination of intelligence. It is training a soul to its highest uses. It is making a man fit for his place in the world in such fashion that he can fulfill all his obligations in the wholesomest and most satisfying way.

* * * * *

In the acquiring an education, to render it truly broad and comprehensive, there must be place for this religion of love. This is true for the first, because the greatest fact of the universe is God, and while one is apart from Him the soul cannot develop on its highest side. I have already defined knowledge as the recognition of facts and of the relations between them. We are discovering this in our student life and searching more and more at the sources of original information. In science we place the student in the laboratory or the field, and insist that he shall observe phenomena, and search out effects and causes. We must have no hasty generalizations. All the facts must be gathered, and they must then be wrought into a coherent system. Science will not smile upon the novice who omits from the category any reality that presents itself. And yet, strange to say, there are some students of the physical sciences who draw about themselves a narrow circle, which includes material phenomena and who disregard any of the facts beyond. And there are the ologians who will do the like with a

set of familiar dogmas, and refuse to lift eye beyond them. This is suicidal absorption. It was the death of Archimides that he could not look up from a diagram. Whatever intrudes between the soul and its Maker detracts from a true education. I will not except from this even the science of theology. It is possible for a man to be so intent rattling the dry bones of theological speculation as to miss sight of the living God. What sort of an education could that be called, which omitted all mention of the sun and trained the student to pay no regard to the influences exerted by the sun on our common life? But God is greater than His sun, greater than all His universe, and so a true education must include Him, and the influences which He exerts on the world of matter and of mind.

Monday, June 17.

THE CONVOCATION.

On Monday morning came the "convocation" which is a very interesting exercise instituted by President Harris. A large number of the students, friends, and alumni of the college gathered in the chapel at ten o'clock. The base ball pennant and the tennis cup were placed on the rostrum and were loudly applauded by every one present.

Rev. Dr. Summerbell read a passage of scripture and Ex-President Fernald offered prayer. Then President Harris proposed that on account of our close connection with the state and country, America be made the college hymn. The audience expressed their approval by singing it with a will. After a few remarks by President Harris in regard to the work of the college, Lieut. Hersey called the roll of the faculty and students.

Prof. Stevens, as historian of the college, read a record of the important events of the year. Then the faculty followed with reports from the various departments. Prof. Hamlin told of his early engineering work in the farm gardens and then spoke of a number of Maine State civils who had become famous in their calling. Throughout the exercises the faculty amused themselves and their audience by telling of each other's mishaps.

Prof. Stevens told how Prof. Rogers got stuck on a newly varnished chair at Old Town and then Prof. Rogers spoke of the new species of Jimmie which had been recently discovered. President Harris accused Prof. Harvey of jumping beans and Prof. Jordan remarked that Prof. Hamlin had learned his lesson in loafing very well. A number of the students spoke for the more prominent college organizations. E. C. Merrill represented the Senior class; Tolman, '96, the Y. M. C. A.; Folsom, '95, THE CADET; Moulton, '95, the Athletic Association; Damon, '95, the Press Club; Gibbs, '96, The Prism.

Then followed the awarding of college honors for the year. The Prentiss Declamation prize was awarded to W. L. Holyoke; the Junior Prentiss prize to Fred. A. Hobbs, with honorable mention to Perley B. Palmer; the Libby prize for the best agricultural essay to L. A. Rogers; the prize for the best military essay to LeRoy R. Folsom; the Cumberland County prize for excellence in extemporaneous composition to Geo. A. Whittemore; the Aroostook County prize for excellence in algebra, to Albion D. T. Libby; sharpshooter's badge to Dearborn, '98; gold badge for best company marksmanship to the organization consisting of the band, field and staff officers and

signal corps; marksman's buttons to Manter, Bunker, Gorham, Wilkins, Stevens, Ellis, B. A. Gibbs, H. A. White, Heath, Rollins, and H. P. Merrill; the Southard tennis medals—for singles to H. H. Heywood; in doubles to Heywood and Gibbs '96. The exercises were closed by giving the college yell for Ex-President Fernald.

CLASS DAY.

As you will notice, the customary order of exercises was changed this year, Class Day coming before the Commencement exercises, and the change is a good one. Formerly nearly all the students did not wait for Class Day, going home immediately after Commencement Drill, but now all can attend the most interesting occasion of the week.

Promptly at 2.30 P. M. the class marched in and, as the roll of nicknames was called by Marshal Boardman, took seats and awaited developments. Town Hall was filled completely and between the inspiring music of Howe's orchestra and the bright, interesting parts of the speakers the crowd was kept in most excellent humor. The programmes were very tasty and as usual the signs of the ingenuity of the class in introducing new features was not absent.

THE PROGRAMME.

	Music.
	Prayer.
	Music.
History,	- - - - L. R. Folsom
	Music.
Prophecy,	- - - - O. L. Grover
	Music.
Address to Undergraduates,	- C. A. Frost
	Music.
Valedictory,	- - - E. C. Merrill
	Singing Class Ode.
	Music.

CLASS ODE.

By Melville F. Rollins.

AIR—America.

Our Alma Mater thee,
Our lips in unity
Would sing thy praise.
We love thy college halls;
We love its classic walls;
Here, deaf to Duty's calls,
We'd pass our days.

Yet we must part from thee,
Must leave this life so free,
This college fair.
Work waits for us to do;
Earth needs men brave and true;
So we must take up life anew,
Its burdens share.

Yet when our thoughts are free,
Back will they turn to thee,
This life so bright.
With glowing hearts recall
Fun, work and study, all—
Thee in praise we would extol
To greater height.

THE COMMENCEMENT ORATION.

The closing event of Monday was the excellent oration on the subject of "Deficient Professional Training," by Hon. Edward C. Reynolds, of Portland. Town Hall was well filled with people when, at 8 o'clock, Mr. Reynolds began his talk. The following is an extract from his speech:

"Reduce the average age of admission to seventeen years, perhaps a little lower, and dependent upon this, make the college course three to four years. If seventeen years, with a four years college course, the studies of the senior year should be designated with special reference to the professional studies to be pursued. Then, with a two or three years course at a professional school, the average man at twenty-three should be ready for the business of life, fairly equipped with a good preparatory education and possessing a better professional education than generally prevails to-day. It seems to me that this method

would provide a college course that would popularize itself and that would bring college training nearer the affections of the people, because more of them would try it and have a personal appreciation of its advantages and worth."

Tuesday, June 18.

COMMENCEMENT DRILL.

The Annual Commencement Drill was held Tuesday, June 18, at 10 A.M. As this was the last official appearance of Lieut. Hersey as professor of Military Science and Tactics at the college, more than the usual interest was manifested.

At the assembly the cadets fell in and were marched to the new athletic field where the battalion was formed facing the grand stand. Then followed a short battalion drill, skirmish, etc. After this there was a dress parade during which the orders and appointments were read.

The following is the list of appointments of officers and non-commissioned officers for 1895-'96:

HEADQUARTERS C. C. C.)
MAINE STATE COLLEGE.
ORONO, ME., June 18, 1895. }

ORDERS NO. 54:

I. In making up the standing of the Senior class in Military Science, there has been taken into account class room work in the Art of War, the military essays and the practical work in field, camp and quarters.

II. The following named cadets of the Senior class having faithfully pursued and satisfactorily completed the course in Military Science and Tactics are awarded special military certificates, viz.: Harold S. Boardman, Earl C. Merrill, Melville F. Rollins, Ora W. Knight, Albion Moulton, LeRoy R. Folsom, Halbert G. Robinson, Frank Damon, Walter M. Murphy, Wendall W. Chase, Isaac G. Calderwood, Chas. A. Frost, M. E. Ellis, Gilbert G. Atwood, Clifford J. Pattee, Chas. D. Thomas, Oscar L. Grover, James W. Martin, Alfred H. Buck and Andries G. de Haseth.

This list is remarkable in that all the present graduating class are included and

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III. Cadets Harold S. Boardman, Earl C. Merrill and Melville F. Rollins being the first three in class standing in the military department, will, according to the instructions of the War Department, be reported to the Adj.-General of the Army and their names will appear in the U. S. Army Register for 1895.

IV. Excepting the first three sergeants, all existing appointments of officers and non-commissioned officers in the Coburn Corps of Cadets are hereby revoked.

V. By the authority of the Faculty, the following appointments of officers and non-commissioned officers in the Coburn Corps of Cadets are hereby announced:

To be Captains, Frank L. Marston, Perley Walker, Herman S. Martin.

To be 1st Lieut. and Adj., Paul D. Sargent.

To be 1st Lieut. and Quartermaster, Chas. P. Weston.

To be 1st Lieut. and Chief Signal Officer, John A. Starr.

To be 1st Lieuts., Harry C. Farrell, Beecher D. Whitcomb, Fred A. Hobbs.

To be 2d Lieuts., Gardiner B. Wilkins, Herbert L. Niles.

To be Sgt.-Maj., William T. Brastow.

To be Quartermaster-Sgt., Justin R. Clary.

To be 1st Sgt., Stanwood H. Cosiney.

To be Color Sgt., Howard E. Stevens.

To be Sgts., Joseph W. H. Porter, Perley F. Goodridge, Myron G. Russell.

To be Corpls., Samuel C. Dillingham, Geo. A. Whittemore, Herbert L. Libby, Harrison P. Merrill, Harry M. Lincoln, Leon E. Ryther, Edwin A. Sturgis, Edwin E. Nowlan, Elmer D. Merrill, Ralph Hamlin, John W. Dearborn, Chas. P. Crowell, Harry A. Higgins, Bernard A. Gibbs, Dana T. Merrill, Roderick D. Tarr, Alfred A. Starbird, Albert L. Whipple.

They will be obeyed and respected accordingly.

VI. The following assignment of officers and non-commissioned officers are hereby announced:

To the band: 1st Sgt. Cosiney, who will be musical director. Sgt. Goodridge, Corpls. Whittemore, Merrill, H. P., and Merrill, E. D.

The Adj. by virtue of his office will command the band. Cadet Corlp. Merrill, H. P., is assigned to duty as Drum Major.

Color Guard: Cadet Color Sgt. Stevens,

H. E., Cadets Weymouth and Glidden, vice Buffum and Upton hereby relieved.

Co. "A."

Capt. Marston.

1st Lieut. Whitcomb.

2d Lieut. Wilkins.

1st Sgt. ———

Color Sgt. Stevens, H. E.

Corpls. Libbey, H. S., Sturgis, Nowlan, Dearborn and Starbird.

Co. "B."

Capt. Walker.

1st Lieut. Farrell.

2d Lieut. Niles.

1st Sgt. ———

Sgt. Porter, J. W. H.

Corpls. Dillingham, Lincoln, Ryther, Hamlin and Crowell.

Co. "C."

Capt. Martin, H. S.

1st Lieut. Hobbs.

2d Lieut. ———

1st Sgt. ———

Sgt. Russell.

Corpls. Higgins, Gibbs, B. A., Merrill, D. T., Tarr and Whipple.

VII. The following named cadets are transferred to Signal Section: Fernald, Jefferey, Kidder, Manter, Pride, Rogers, Tolman.

VIII. Seniors, members of the band, Signal Section and Sgts. will report to the Armory immediately after this drill to turn in arms and equipments, rectify rolls and close up reports.

The Armory will be open from 12.00 to 12.30 to-day for cadets wishing to turn in arms and equipments. All cadets not turning in arms and equipments at this time will report to-morrow morning at 8.30 A. M. for this purpose.

By order of Lieut. Hersey.

EARL C. MERRILL,

1st Lieut. and Adj. Coburn Corps of Cadets.

HEADQUARTERS C. C. C.,

MAINE STATE COLLEGE,

ORONO, ME., June 18, 1895.

ORDERS NO. 54:

IX. In accordance with the decision of the Inspector-General, Col. R. P. Hughes, U. S. A., the honor of carrying the colors for the year beginning to-day is given to Co. "C" which has for the previous year been commanded by Capt. Isaac G. Calderwood.

By order of Lieut. Hersey.

EARL C. MERRILL,

1st Lieut. and Adj. C. C. C.

THE RECEPTIONS.

Under the existing Commencement calendar, Tuesday is the social day of the week and it was surely a gala day this year, as the weather was great and consequently many people accepted the invitations of the fraternities to attend their receptions.

The Beta Theta Pi, Q. T. V. and Alpha Tau Omega fraternities each had receptions, from 3 until 6 o'clock. Mrs. M. L. Hersey, Mrs. D. W. Colby and Miss Harriet C. Fernald, together with the members of the Senior class, received at the Beta Theta Pi house. The interior of the house was very prettily decorated, the pink and blue colors of the fraternity predominating. Howes, with his orchestra, was stationed on the lawn and helped to make the occasion a success. Misses Farrar, Spencer, Hamilton and Buck assisted in serving the refreshments, which consisted of ice cream, punch and tea.

The Alpha Tau Omega's reception was veritably a "housewarming," as this was the first time they had received their friends in their beautiful new chapter house. The spacious rooms were well decorated and a great many people availed themselves of the opportunity to visit them. The receiving committee consisted of Mrs. Harvey, Mrs. Rogers, Mrs. Hooper, Mr. Murphy and Mr. Folsom. Misses Seavey, Grant and Douglass served the refreshments—ice cream, cake and punch.

PRES. HARRIS' RECEPTION.

Pres. and Mrs. Harris gave their reception Tuesday evening, June 18, and it was very successful. The house and grounds presented a most pleasing appearance, the house being decorated with Japanese lanterns festooned around the veranda, while

flowers and potted plants greatly enhanced the appearance of the interior. The reception committee was made up of Pres. and Mrs. Harris, ex-Pres. Allen and wife, and Hon. Henry Lord and wife of Bangor. Refreshments were served throughout the reception and were partaken of by a large number of guests. Marston, Walker and Martin, '96, acted as the introducing committee at the reception.

THE REUNIONS.

Q. T. V.

The Q. T. V. Reunion was held after the President's reception, and was very well attended. The banquet was held in the banquet hall of the chapter house.

The order of the evening was as follows:

- Opening Ceremonies.
- Address of Welcome, I. G. CALDERWOOD
- Installation of Officers.
- Business.
- Remarks by Alumni.
- Meeting of Corporation.

WALTER FLINT, President.

Following this meeting it was voted to adjourn to the banquet hall, which vote was unanimously seconded.

The banquet passed off pleasantly and at its close the toast-master of the evening, Prof. H. M. Estabrooke, rose and called for the following toasts:

- | | |
|--------------------|--------------------|
| Our Fraternity. | E. F. DANFORTH |
| '95, | C. A. FROST |
| Alumni, | E. B. WOOD |
| Chapter House, | I. G. CALDERWOOD |
| Athletics, | E. H. ELWELL |
| Military, | F. L. MARSTON |
| Our Alma Mater, | E. F. HITCHINGS |
| The Prism, '96, | P. D. SARGENT |
| Fraternity Policy, | Prof. WALTER FLINT |

MISCELLANEOUS.

The Beta Reunion.

The alumni of the Maine State Chapter of Beta Theta Pi fairly took possession of the chapter house on

Tuesday evening, as they considerably outnumbered the active members. The occasion was the nineteenth annual reunion of the chapter, and a more enjoyable one was never held. The customary literary exercises were opened by an address of welcome by A. H. Buck, '95, the president of the chapter, and after several songs were sung, the oration was delivered by W. R. Pattangall, '84. William T. Haines, '76, was then called upon, also Chas. P. Allen, '76, James E. Dike, '76, Eben C. Webster, '82, Edward S. Abbott, '84, and others were heard from.

The banquet was served in the dining hall of the house and the "sounds of revelry" were kept up till daylight. Mrs. Mary Smith Lutz, of Bangor, was the caterer, and it is needless to say that it was an excellent dinner that the followers of "Wooglin" sat down to.

TOASTS:

Toastmaster, D. W. Colby, '87.
Song—"Come, Betas, let us sing a song."
Air—Landlord, fill the flowing bowl.

1. Wooglin forever, J. R. Boardman, '88
"You must be a Beta Theta Pi
If you want to go to Wooglin when you die."

2. "Is a Beta the same the world over?"
R. K. Jones, '86
"God bless the good true Beta,
God bless the pink and blue."

Song—"Nostra Insignia,"
Air—Lauriger Horatius

3. The Beta Shield, E. H. Kelley, '90
"All the devices blazoned on the shield."

4. The Beta Girls, A. J. Coffin, '90
"Fairer than lilies and purer than pearls,
We yield thee our praises, O, dear Beta girls."

5. The Beta Flag, Frank Damon, '95
"Unfurl we now on high
The dark blue flag of Beta Theta Pi."

6. The Tale of the Dorg, D. C. Woodward, '82
"Outdid the meat, outdid the frolick wine."

7. "Till we meet again," C. S. Bickford, '82
"The joys of meeting pay the pangs of absence;
Else who could bear it?"

Song—"And now let hand grip into hand,"
Air—Auld Lang Syne

The alumni present were: William

T. Haines '76, James E. Dike '76, Chas. P. Allen '76, Eben C. Webster '82, Daniel C. Woodward '82, Chas. S. Bickford '82, Edward S. Abbott '84, W. R. Pattangall '84, Ralph K. Jones '86, D. W. Colby '87, C. L. Howes '87, Chas. D. Blanchard '88, A. H. White '89, A. J. Coffin '90, E. H. Kelley '90, Nathan C. Grover '90, Alden Webster '91, Frank G. Gould '94, James E. Harvey '94, and Albro L. Burnell ex-'98.

Kappa Sigma Reunion.

The annual banquet of Psi Chapter of Kappa Sigma was held at the Bangor Exchange Tuesday evening at half past eleven. The chapter left Oak Hall at ten o'clock and after a pleasant ride arrived at the Exchange to find one of Landlord Stearns' well known spreads awaiting them.

Beside the active members there were present: Vickery '89, Dillingham '90, Kittridge '93, Hincks ex-'95, J. E. Hicks, Bowdoin '95. Through a mistake of the printer the toasts were given in the last number.

Wednesday, June 19.

The Commencement exercises were held in the Methodist church Wednesday forenoon, beginning at 9 o'clock. A very large audience was present to hear the final parts of the graduates and see them receive their diplomas. President Harris, Ex-President Fernald, and members of the Board of Trustees occupied seats on the platform. Howes' orchestra furnished most acceptable music.

PROGRAMME.

Music.

Prayer.

Music.

Patriotism, Charles Albert Frost, Monmouth
Educational Requirements of the Civil Engineer,
Gustavus Gilbert Atwood, So. Carver, Mass.

The American Indians,
Merton Eugene Ellis, North Guilford
Music.

Influence of Technical Education on
Liberal Education,
Oscar Llewellyn Grover, Redlands, Cal.
Coast Defense,
Harold Sherburne Boardman, Bangor
A Problem of To-day,
LeRoy Rowell Folsom, Corinna
Music.

The Nicaragua Canal,
Melville Frederick Rollins, Bangor
The Art of Handling Men,
Frank Damon, Hampden
Music.

Japan and the Red Cross Treaty,
Wendell Wyze Chase, Auburn
High Business Aims,
Earl Clinton Merrill, East Eddington
Music.

The Conferring of Degrees.
Music.

Advanced Degrees Conferred and Theses.
Mechanical Engineer.
Fred Langdon Eastman,
Pumping Station
Joseph Colburn Graves,
Elevating Machinery
Daniel Carr Woodward,
Experimental Apparatus for Electrical Work
Civil Engineer.
George Maguire,
Details of Sewer Construction
Stanley Milton Timberlake,
Details of Sewer Construction
Master of Science (in Chemistry.)
Fred Charles Moulton,
Action of Lime upon Paris Green

The following is the graduating
class, with degrees:

Gustavus Gilbert Atwood, B.C.E.
Harold Sherburne Boardman, B.C.E.
Alfred Howard Buck, B.M.E. (in Elec-
tricity.)
Isaac Glidden Calderwood, B.C.E.
Wendell Wyze Chase, B.C.E.
Frank Damon, B.S. (in Science.)
Merton Eugene Ellis, B.M.E.
LeRoy Rowell Folsom, B.S. (in Science.)
Charles Albert Frost, B.C.E.
Oscar Llewellyn Grover, B.M.E. (in Elec-
tricity.)
Gerardus Andries de Haseth, B.C.E.
Ora Willis Knight, B.S. (in Chemistry.)
James William Martin, B.C.E.
Earl Clinton Merrill, B.C.E.

Albion Moulton, B.M.E.
Walter Marshall Murphy, B.C.E.
Clifford James Pattee, B.C.E.
Halbert Gardiner Robinson, B.C.E.
Melville Frederick Rollins, B.C.E.
Charles Dura Thomas, B.C.E.

ALUMNI BANQUET.

A great gathering of alumni and invited guests sat down to the annual banquet at the Town Hall at 1 o'clock Wednesday afternoon. Howes' orchestra occupied the stage and enlivened the occasion with excellent music. Stearns, of the Bangor Exchange, was the caterer. After the appetites of the assembly had been satisfied, President Harris arose and spoke briefly on the origin of the college, and then introduced Hon. Louis C. Southard, '75, of Boston, as toastmaster, "who had been imported expressly for the occasion."

TOASTS.

Good Old Maine,
Mrs. Walter Flint, '90
"Oh, happy, happy, thrice happy State!"
—Thomas Hood.

The University of Maine,
W. T. Haines, '76
" 'Tis a consummation devoutly to be wished for."
—Shakespeare.

Our Legislative Friends,
Clarence S. Lunt, '84
"I'd rather have such men my friends than enemies."
—Shakespeare.

Women at the Maine State College,
Mrs. Albert White, '79
"Auld Nature swears, the lovely dears,
Her noblest work she classes, O;
Her prentice han' she tried on man,
And then she made the lasses, O."
—Burns.

Our Graduating Class,
Frank Damon, '95
"No sense have they of ills to come,
No care beyond to-day."
—Gray.

Auld Lang Syne,
E. M. Blanding, '76
"Should auld acquaintance be forgot
And never brought to mind?"
—Burns.

Prof. Jordan responded to the toast "Our Legislative Friends," in the absence of C. S. Lunt, who was unable to be present.

At the close of the programme the toastmaster called on Hon. Llewellyn Powers of Houlton who made a very interesting speech. He remarked

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that no man in the State, on the floors of the legislative halls, had spent more hours upholding the rights of the college than had he.

Dr. Allen, the first president of the college, after saying a few words regarding his love for the college, sat down amid the greatest applause.

THE ALUMNI ASSOCIATION.

The last annual meeting of the General Alumni Association was one that would have done the soul good of every M. S. C. graduate, could they have been present. After the bounteous repast served at the banquet just before, every one was in his best humor.

President H. M. Estabrooke presided in his usual easy manner and after the transaction of some routine business the following officers were elected:

President, C. S. Bickford, '82; Recording Secretary, D. W. Colby, '87; Corresponding Secretary, Frank Damon, '95; Treasurer, E. H. Dakin, '77; Necrologist, L. H. Merrill, '83.

After this, Hon. L. C. Southard, '75, took the floor and after speaking in an enthusiastic manner of the great success in athletics this year, and of the need of proper training facilities, he made the motion that the Alumni Association contribute \$500 for the purpose of building a quarter mile cinder running track, the college to furnish the remainder of the sum necessary to complete the work. This motion was heartily seconded in several speeches and when put to a vote was carried unanimously. It was also voted to place the matter under the charge of Lieut. Mark L. Hersey, and no further guarantee is needed that this excellent idea will

be promptly carried out if the funds are forthcoming.

A resolution expressing the thanks of the alumni to Edward C. Reynolds, Esq., of Portland, for the Commencement oration, was passed, also the following resolutions:

Whereas: The detail of Lieut. Mark L. Hersey, U. S. A., for the past four years military instructor at the Maine State College, expires with the present collegiate year, therefore be it

Resolved: That the alumni of the Maine State College hereby express their appreciation of the untiring energy with which Lieut. Hersey has labored to bring his department to its present high state of efficiency. Also, be it

Resolved: That we hereby tender our sincere thanks to Lieut. Hersey for his long-continued, earnest and successful efforts to advance the welfare of the college in every department and that we deeply regret the custom of the War Department will not allow his being again detailed here. Also be it

Resolved: That these resolutions be placed upon the records of the Association and that copies duly signed by the President and Secretary be sent to the War Department and to Lieut. Hersey.

THE COMMENCEMENT CONCERT.

Wednesday evening occurred the Commencement concert and ball. The talent consisted of "The Boston Singers," a male quartette consisting of Thomas E. Johnson, tenor, Jerome F. Hanshue, tenor, William W. Walker, baritone, and William H. Clark, bass; assisted by Miss Ida Florence, reader. Howes' orchestra also rendered several fine selections.

THE PROGRAMME.

1. Overture,
"Around the Metropolis," *Beyer*
Orchestra.
2. "Hark, the Trumpet," *Buck*
Quartette.
3. Echo and the Ferry, *Ingelow*
Miss Florence.
4. Baritone Solo, *Selected*
Mr. Walker.

5. Dance of the Goblins, *Ricker*
(Time, near midnight—Cricket and night birds are heard—Nightingale—Steeple clock strikes the hour—Goblins assemble at the old church-yard—They begin to dance—Brightened away by watchman's rattle and pistol—Goblins slowly return and dance livelier than before—Steamboat is heard passing down the river—Watchman returns, fires pistol—Grand scramble, in fire and smoke, to get away.)
Orchestra.
6. "The Watermill," *Macy*
Quartette.
7. Pauline Parlorna,
(A Russian Sketch.) *Aldrich*
Miss Florence.
8. "The Two Grenaniers," *Schumann*
Mr. Clarke.
9. "Annie Laurie," *Buck*
Quartette.
10. Xylophone Solo, *Selected*
Mr. Edwards.
11. "Mona," *Adams*
Mr. Hanshue.
12. The Angels and the Shepherds,
(from Ben-Hur.) *Wallace*
Miss Florence.
13. "Serenade," *Abt*
Quartette.
14. "The Jolly Cadet," *Gilden*
Orchestra.

The ball which followed was a very fine affair and should be scored as another of ninety-five's successes. The floor was under the management of Halbert G. Robinson, '95, assisted by L. R. Folsom, '95, H. C. Farrell, '96, and E. E. Gibbs, '96.

THE FRESHMAN BANQUET.

The Freshmen celebrated the event which they have been looking forward to for a year—becoming Sophomores—by partaking of one of Landlord Stearns' excellent dinners at the Bangor Exchange on the evening of June 14. About forty of the class were in attendance and from all reports they tried to keep up the reputation that the upper-classmen have established, by making considerable noise. The gentlemen who arranged the affair were Messrs. Morrill, Bryant, Webster, Anderson and Rockwood. Mr. S. C. Dillingham acted as toastmaster and it will be noticed that the toasts ran slightly toward the "effeminate."

TOASTS.

Morrill,	-	-	-	-	-	-	'98
Ellis,	-	-	-	-	-	-	Foot-ball
Anderson,	-	-	-	-	-	-	Fair Sex
Webster,	-	-	-	-	-	-	'97
Welch,	-	-	-	-	-	-	Base Ball
Ryther,	-	-	-	-	-	-	'99
Merrill,	-	-	-	-	-	-	Athletics
Marks,	-	-	-	-	-	-	Oldtown Girls
Whittemore,	-	-	-	-	-	-	Orono Girls
Taylor,	-	-	-	-	-	-	Co-education
Higgins,	-	-	-	-	-	-	Hazing



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LOCAL NOTES.

Master, Master! News, old news, and such news as you never heard of."

—The Taming of the Shrew,—Act III, Sc. 2.

Can't the "farmers" play ball?

The shop has been improved by a coat of paint.

The Q. T. V. house is to receive a fresh coat of paint and other improvements.

It is unfortunate to have a poor memory and forget Commencement drill, for it means five extras.

Lost—a cane. The finder will be suitably rewarded by returning to A. F. Warner, '98, M. S. C., Orono. Me.

Mrs. Balentine is to be treasurer of the college in place of Prof. Hamlin, who has filled that position for some time.

Work on the Kappa Sigma chapter house is to be recommenced immediately and is expected to be completed by next term.

About a dozen of the students will make an effort to replenish their stock of cash by canvassing during the vacation.

The Freshmen celebrated the close of their examinations by a buckboard ride to Bangor and a banquet at the Bangor Exchange.

The college orchestra furnished the music for the graduating exercises of the Orono High School, Friday evening, June 14th.

Dr. Harris left for Middletown, Conn., June 22d, to attend the Commencement exercises of Wesleyan University, his *alma mater*.

Lost—a cane, on College street somewhere between the bridge and Oak Hall.

The finder will oblige by returning it to Room 5, Oak Hall.

The Junior class elected as officers for next year: President, Gilbert Tolman; Vice President, W. R. Page; Secretary and Treasurer, H. S. Martin.

Over forty applications for admission have already been received, which, judging from last year, ought to give us an entering class even larger than '98.

At a recent meeting of the Sophomore class, the following officers were elected: President, S. S. Bunker; Vice President, E. H. Macloon; Secretary and Treasurer, J. R. Clary.

E. Everett Gibbs, '96, will represent the Maine State chapter, the Beta Eta of Beta Theta Pi, at the sixty-sixth annual convention of that fraternity, which will be held in Chicago July 23-28.

It has at last been decided not to run the electrics through the campus, but to keep to the main road. It was too bad they could not have been running Commencement, as it was hoped to have them.

The members of the Junior class who will take part in a debate next fall upon the question of the annexation of the Hawaiian Islands to the United States are: P. B. Palmer, P. D. Sargent, affirmative; and E. E. Gibbs, J. W. Randlette, negative.

What a misfortune it is that so many of our best military men have arrearages, and that under the present system they can receive no appointment. It would seem that if a man showed ability in any direction connected with the

work of the college, he would be encouraged in that direction, but then "there are others."

We cannot but regret the loss of Lieut. Hersey, who "graduates" with the class of '95, after four years of hard, faithful work in the interest of the military department, which we believe now

stands second to none in the Eastern States outside of West Point. Lieut. Hersey will, however, remain in the State another year, having received a position on the Governor's staff; and we may safely look forward to an occasional visit to the Coburn Cadets, in whose welfare we know he will always take the greatest interest.



YE ALUMNI.

THE alumni attended the exercises Commencement week in large numbers. The usual amount of enthusiasm was shown by them, perhaps augmented by the splendid achievements of the college during the past year. The various alumni associations serve to keep them in touch with the undergraduates, who cannot complain of a lack of interest among the alumni, that kind of interest which is deep enough to go down into their pockets and raise \$500 toward building a running track at the college, for that is just what the Maine State College Alumni Association voted at their last meeting. What a boon for field athletics!

The alumni appreciates the good work which Lieut. Hersey has done in the military department of the college for the past four years and at their annual meeting adopted the following resolutions:

Whereas: The detail of Lieut. Mark L. Hersey, U. S. A., for the past four years Military Instructor at the Maine State Col-

lege, expires with the present collegiate year. Then be it

Resolved, That the alumni of the Maine State College, hereby express their appreciation of the untiring energy with which Lieut. Hersey has labored to bring his department to its present high state of efficiency, also be it

Resolved, That we hereby tender our sincere thanks to Lieut. Hersey for his long continued, earnest and successful efforts to advance the welfare of the college in every department, and that we deeply regret the custom of the War Department will not allow his being again detailed here. Also be it

Resolved, That these resolutions be placed upon the records of the association and copies duly signed by the president and secretary be sent to the War Department and to Lieut. Hersey.

C. S. BICKFORD, President.

FRANK DAMON, Secretary.

The society receptions were most enjoyable occasions and probably a large part of the alumni attended and registered. It is due almost entirely to these registers that we are able to give the following partial list of the alumni present Commencement week:

E. F.
ing, H.
Haines
Allen,
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Davis,
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E. F. Hitchings, '75; E. M. Bland- ing, H. M. Esterbrook, William T. Haines, James E. Dyke, Charles P. Allen, '76; Mrs. Albert White, '79; J. M. Bartlett, A. H. Brown, '80; Eben C. Webster, Daniel C. Woodward, Charles S. Bickford, Walter Flint, '82; Edward S. Abbott, W. R. Pattangall, J. A. Dunning, L. W. Cutter, Wm. Webber, '84; H. W. Davis, E. O. Goodridge, '85; Ralph K. Jones, '86; D. W. Colby, C. L. Howes, H. S. Webb, J. S. Williams, '87; F. L. Brick, J. W. Hatch, T. G. Lord, Chas. D. Blanchard, '88; Gilbert S. Vickery, A. H. White, '89; F. G. Quincy, A. J. Coffin, Edw. H. Kelley, Nathan C. Grover, Mrs. Walter Flint, '90; Alden Webster, '91; C. H. Nealley, M. E. Farrington, '92; Charles P. Kittredge, W. D. Jack, H. B. Brick, A. T. Jordan, '93; E. B. Wood, Frank G. Gould, James E. Harvey, '94.

ALUMNI NOTES.

Ex-'75.

Louis C. Southard was also present and spoke at the alumni dinner. He is well known by the students as the giver of the Southard medals for tennis.

'76.

Hon. Wm. T. Haines of Waterville, has a camp at Great Pond. Not long ago a large party of Kennebec lawyers were royally entertained by him in this resort.

'82.

Chas. S. Bickford of Belfast, has been chosen president of the Maine State College Alumni Association. An alumnus more loyal to his alma mater can scarcely be found. During the past sixteen years he has missed

attending but one Commencement and that time it was absolutely impossible for him to be present. He is constantly doing effective work for the college, as his interest indicates. We congratulate the association on their choice.

'84.

Edward S. Abbott is a homœopathic physician in Bridgton, Me., where he has an extensive practice.

'85.

Fred W. Fickett, who graduated orator of his class, is practicing law in Galveston, Texas. He studied law in the University of Oregon and an extensive patronage is the result of his earnest endeavors. One interesting feature of his history since graduation is his connection with a party in the frigid regions of Alaska a few years ago. While there he obtained a pair of tusks of a mastodon and sent them to our college museum where they are now on exhibition. Mr. Fickett is a genial, courteous gentleman, a prominent mason and on the board of directors of the Y. M. C. A. of that place.

'87.

C. L. Howes is the leader of Howes' Orchestra of Boston, which furnished us with such excellent music during Commencement. On all sides nothing but commendation was heard for this organization.

Ex-'88.

Henry F. Perkins is baggage master in Oakland, Me.

'95.

Harold S. Boardman will enter the Massachusetts Institute of Technology this fall in the Senior class.



THE BALL TEAM.

WE are much pleased to be able to present to our readers a picture of our ball team. Never before has the college been represented by so good an all-round team as that which our illustration shows. Every position has been well filled. Undoubtedly the team would have been strengthened by gymnasium practice, but we are very well satisfied with it as it is.

Dolley's work at short, for instance, could be improved if we had some opportunity for work during the winter. He fields the ball well, throws it very quickly, but is not strong enough to give it proper speed—so it is thought on the team. Its improvement in each game throughout the season was very noticeable. The team went into the field from a long term's class-room work, with little or no preliminary training. The team could not be at its best, but as the season advanced the men became harder and stronger and their play steadier and faster. They have worked hard and conscientiously and won in the face of many difficulties. "Luck," "mascots" or "hoodoos" have not entered into it. They deserve the most sincere praise and support of the students, the alumni, and the friends of the college. We cannot say too much in praise of Manager Calderwood's excellent arrangements for the games and his general management of the team.

For the benefit of our readers who have not been able to follow the games closely, we give a review of the season and short sketches of the players. The

games played and their scores are as follows:

Maine State vs. M. C. I., Pittsfield,	9-8
Maine State vs. M. C. I., Pittsfield,	10-5
Maine State vs. M. C. I., Orono,	10-3
Maine State vs. Bangor League, Bangor,	2-22
Maine State vs. Bowdoin, Orono,	7-5
Maine State vs. Bowdoin, Brunswick,	10-27
Maine State vs. Bates, Lewiston,	11-19
Maine State vs. Colby, Orono,	17-9
Maine State vs. Bates, Orono,	6-9
Maine State vs. Colby, Waterville,	10-3
Maine State vs. Colby, Brunswick,	10-7
Maine State vs. Bowdoin, Waterville,	20-2

This shows that out of twelve games played we have won eight and lost four. In only three of these has there been anything that could be called loose playing. We could not expect to win the game with the Bangor League team, but with Bass in the box the score would have been much closer. Miller's wild pitching discouraged the team and with two or three exceptions they played in a half-hearted way. In regard to the game with Bowdoin at Brunswick, we have nothing to say except that it was one of those off days which every team has occasionally. In the game with Bowdoin at Waterville, one feature of the game showed marked improvement over the work of the previous year. With a lead of thirteen to nothing, the team played as sharply as if the score was tied.

Perley Burnham Palmer, the popular catcher and captain of the pennant winners, is a native of South Bridgton, Me. He is twenty years old, weighs 135 pounds, and takes the course in Civil

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Engineering with the class of '96. Before entering college he played on the Bridgton High School team. In his Freshman year he played third base and left field, but has, with one exception, caught in every game played in the last two years. In speaking of the game with the Bangor League team, the *Commercial* calls him the best amateur catcher ever seen in Bangor. He is a very energetic captain and much of the success of the team is due to his hard work and "hustle." Mr. Palmer has been very prominent in college and class affairs, having served one year as president of his class, as business manager of the '96 *Prism* and of the CADET, and as foot ball manager. At the first field meet he won the 100-yard dash and 220-yard dash easily, but was away with the ball team at the time of the second meet.

George W. Bass, '97, whose steady work in the box has done so much to bring the pennant to Orono, comes from Bangor. He only weighs 145 pounds, thus making the combined weight of the battery 280 pounds. He first made his appearance as a pitcher on the Brewer High School team. The year before entering college he pitched on the Bangor Y. M. C. A. team with very good success. In 1894 he pitched on the Camden team. A great part of his spare time has been spent in the Bangor Y. M. C. A. gymnasium and to this has been largely due his success as a pitcher. He is one of the best bowlers in Bangor and holds the National Y. M. C. A. record for the pull-up. He is remarkably cool in the box and fields his position almost perfectly. He is a good short stop, second baseman or out fielder; a sure hitter and good base runner.

G. Andries de Haset, the well known and popular first baseman, is a native of Curaçao, West Indies, but has made his home in Brewer for the last nine years. de Haset, or as he is known among the

boys, Feji, is a member of the graduating class, is 22 years old and weighs 180 pounds. He began his base ball career at fifteen as catcher of the Brewer High School nine. In his Freshman and Sophomore years he caught, but for the last two years has covered first base to the satisfaction of every one. Last season he occupied the same position on the Rockland team. On first he covers a large amount of ground and it is a wild throw indeed that is beyond the reach of his long arms. This summer he will visit his home in the West Indies and return in the fall to engage in civil engineering work.

Warner E. Welch, '98, who played second base and short stop, is an Orono boy, is 17 years old and weighs about 145 pounds. The season before he entered college he was second base and captain of the crack Orono High School team. His work on second has been steady, with many brilliant plays to his credit; he is a good batter and generally manages to get a two base hit in each game.

Harry C. Farrell, '96, better known as "Reddy," comes from Machias. He is 20 years old, weighs 148 pounds and has beautiful auburn hair. Before entering college he caught on his High School team and played third base on the Machias team. In his Freshman year he played second base but has covered third for the past two seasons. His fielding average has been reduced somewhat by the many difficult chances he has taken. At the bat he has improved steadily until, at the close of the last season, he was one of the best batters and base runners on the team.

Walter Dolley, '98, is from Gorham, is 17 years old and weighs 135 pounds. All his experience in base ball previous to entering college has been on teams about his home. During the first part of the season he played short, but in the

latter part was changed to second. He is very quick motioned and active and fills either position in a very efficient manner.

Arthur S. Cowan, '97, is an Orono boy, 19 years old and weighing about 150 pounds. The year before entering college he captained his High School team with marked success. In his first year on the college team he played short very successfully, although that is not his natural position. This season he has played right field. His fielding has been uniformly good and he was one of the most reliable batters on the team. Early in the term he took first rank in a competitive examination and received an appointment to West Point. However, he continued his college work and played with the team nearly all the season. He was one of the popular men of his class and will be greatly missed by his many friends, whose best wishes accompany him in his military life.

Louis J. Brann, '98, lives in Gardiner. He is 19 years old and weighs 155 pounds. His early base ball work has been on the Gardiner High School team. In center field he covers a large amount of ground and may always be depended on to take everything that comes into his territory.

Charles A. Frost, who has been called by the newspapers the best fielder in the league, is in the class of '95 and comes from Monmouth. He is 23 years old and weighs 157 pounds. His fielding has been of the most brilliant kind and his graduation leaves a vacancy that will be hard to fill. He has many long hits to his credit and the home run that ended a ten inning game on the Bates grounds, will be long remembered.

Edgar J. Emery, '98, is a Hampden boy 18 years old and weighing about 155. His work as catcher of the Hampden Academy team was good and in practice and in the few games he has played, he

has showed up very well. In his two games with the college team he has played in left field.

Charles P. Crowell, '98, lives in Orono, weighs about 140 and is 17 years old. In the last part of the season he was substitute, last year he was catcher on the Orono High School team. This year he caught on the Freshmen nine doing very steady work in that position and at the bat. He will undoubtedly make a strong player.

At the annual election of officers of the Athletic Association, E. E. Gibbs, '96, was elected President, H. C. Farrell, '96, Vice-President, L. E. Ryther, '98, Secretary and H. S. Martin, '96, Treasurer.

The board of directors for the ensuing year are: Gibbs, *B Θ Π* Chairman; Starr and Bryer, *Q. T. V*; Palmer, *B Θ Π*; Randlette and Manter, *K Σ*; Farrell and Ellis, *A T Ω*; Martin, Gould, N. A. Merrill and H. P. Merrill.

At the meeting of the new board Palmer was elected base ball manager, Gibbs, tennis manager, Martin, collector, and H. P. Merrill, assistant base ball manager and scorer. Mr. Palmer's election as base ball manager gives general satisfaction, although his duties as manager, catcher and captain give him more work than one man should have. When the team begins work it may be necessary for him to leave most of his work to the assistant manager, or perhaps to resign in favor of some one who is not a player. In any case, he should hold the position until the important work of arranging the schedule is over, as there is probably no one in college capable of arranging a better series of games than Mr. Palmer.

It seems to be the general opinion among base ball men that the team should play some games with teams outside of the state. Since we are so re-

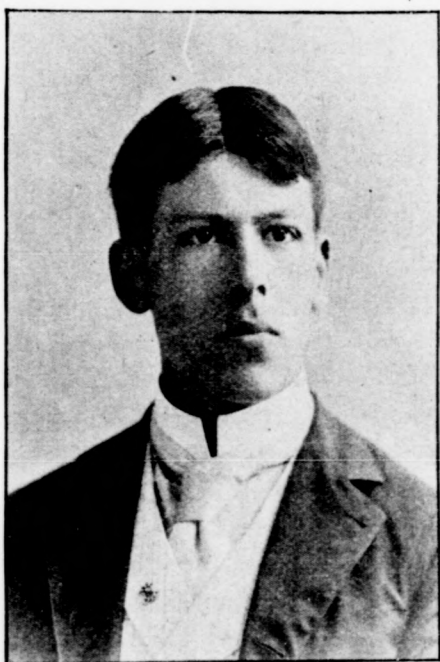
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mote that good teams will not come to in constructing a running track provided us, nothing remains but for our team to the college give enough to finish the go to them. Bates and Bowdoin do work. It will be a first-class quarter fairly well against such strong teams as mile cinder track around the base ball Tufts, Dartmouth and the University of grounds and will probably be done by Vermont. Our work with Bates and the beginning of the fall term. This with Bowdoin would certainly warrant a our new grand stand will give us one of reasonable degree of success against the best athletic fields in the state. Lieut. the stronger New England teams. Hersey will have charge of building the

The Alumni, at their commencement track. meeting, voted to raise \$500, to be used

THE INTERCOLLEGIATE TENNIS TOURNAMENT.



CAPT. H. H. HEYWOOD, '96.

THE Fourth Annual Tournament of the Maine Intercollegiate Tennis Association was held on the grounds of the Portland Athletic Club in that city, June 4th, 5th, 6th and 7th. The matches were characterized by sharp playing, and as the result of the tournament was more in doubt than ever before, it proved to be the most exciting meet ever held by the association.

First place in singles was thought to lie between three men, namely,

Pettigrew of Bates, Heywood of Maine State and Dana of Bowdoin, and as the tournament went on it was plain to everybody that this prophecy was true. Both of these men were defeated by Heywood when playing for second place last year and he was therefore picked for a winner by a large number.

The Bowdoin men were very confident that Dana would make a good bid for the first cup, which has been won twice by Bowdoin and if won again will become her property. In the State Tournament last fall, Dana proved himself to be an excellent player, winning first place, when having to compete against the best players of the State.

Pettigrew was the favorite among the Bates men and their followers, and he surely played the game of his life. His great reach, which enables him to be very effective in his net play, together with his steadiness of play, caused him to be one of the most dangerous competitors.

The new cup which was bought by the association this year for first prize in doubles, was anybody's property until the "last man was out." Each college was represented by four men except Maine State, which sent but

two. The following were the representatives competing :

Singles—Maine State, Heywood, '96, and Gibbs, '96. Bates, Pettigrew, '95, and Hilton, '96. Bowdoin, Dana, '96, and Webster, '98. Colby, King, '98, and McFadden, '98.

Doubles—Maine State, Heywood and Gibbs, '96. Bates, Pettigrew, '95, and Hilton, '96; Boothby, '96, and Stanley, '97. Bowdoin, Dana and Fogg, '96; Dana and Ives, '98. Colby, King and McFadden, '98; Foss, '96, and Alden, '98.

SCORE OF THE TOURNAMENT.

For first place in singles.

Dana, Bowdoin, beat Hilton, Bates, 6-4, 6-3.

Pettigrew, Bates, beat Gibbs, M. S. C., 6-2, 6-2.

Webster, Bowdoin, beat King, Colby, 6-3, 6-4.

Heywood, M. S. C., beat McFadden, Colby, 6-4, 6-2.

Pettigrew, Bates, beat Dana, Bowdoin, 0-6, 6-1, 10-8.

Heywood, M. S. C., beat Webster, Bowdoin, 2-6, 6-2, 6-4.

Heywood, M. S. C., beat Pettigrew, Bates, 1-6, 6-2, 3-6, 6-4, 6-4.

For second place in singles.

Pettigrew, Bates, beat Webster, Bowdoin, 6-2, 6-2.

For first place in doubles.

Dana and Ives, Bowdoin, beat Boothby and Stanley, Bates, 6-3, 3-6, 6-4.

Dana and Fogg, Bowdoin, beat Heywood and Gibbs, M. S. C., 6-2, 1-6, 7-5.

Pettigrew and Hilton, Bates, beat Foss and Alden, Colby, 6-2, 4-6, 6-1.

Dana and Fogg, Bowdoin, beat Dana and Ives Bowdoin, 6-0, 3-6, 6-3.

Pettigrew and Hilton, Bates, beat King and McFadden, Colby, 6-2, 6-2.

Pettigrew and Hilton, Bates, beat Dana and Fogg, Bowdoin, 0-6, 6-1, 6-2, 5-7, 6-3.

Thus it will be seen that the first prize in singles comes to Maine State for the first time. The "Southard" cup for second place in singles, which has been in our possession during the last year, goes to Bates, as well as the

new cup for first place in doubles.

Bowdoin, contrary to expectations and contrary to her past record in tennis, has to be content with no prizes this year; likewise Colby, who has never succeeded in winning any.

The work of Heywood, our champion, has been finely commented on by the press throughout the State. His exceedingly pretty play won him many friends and he deserves all the praise which he received. He was by far the prettiest player in the tournament and the ease with which he handles a racket is remarkable. Combined with his skill is his great power of endurance, which enables him to stand a hard five set match without becoming the least fatigued.

The following is a more detailed account of the matches played by Maine State's representatives :

PETTIGREW VS. GIBBS.

The first match of the tournament was between the above two, in which the Bates man easily won. Gibbs did not serve with his customary accuracy, and although making a few brilliant plays could not handle Pettigrew's swift drives and smashes. The score :

Pettigrew	0	0	3	4	5	6	7	8-6
Gibbs	1	2	0	0	0	0	0	6-2
Pettigrew	1	0	3	4	5	6	0	8-6
Gibbs	6	2	0	0	0	0	7	0-2

HEYWOOD VS. MCFADDEN.

This was one of the most uninteresting matches of the tournament. Heywood was a sure winner and it was only a question of how long the match would last. McFadden worked hard while Heywood played very listlessly, refusing to chase balls which were much out of his reach. Heywood is apt to "loaf" while playing with one he knows he can beat. The score :

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Heywood1 2 0 0 5 0 7 8 9-6
McFadden0 0 3 4 0 6 0 0 0-3

The second set was even more tiresome than the first, Heywood taking the set easily, although the score was once "four all." The score:

Heywood ...1 2 3 0 0 6 0 0 9 10-6
McFadden..0 0 0 4 5 0 7 8 0 0-4

DANA & FOGG VS. HEYWOOD & GIBBS.

Our team did not expect to make a brilliant showing in doubles, owing to lack of practice together, but gave the Bowdoin men a scare, coming within one game of beating them.

In the first set the Maine State team did not get down to work at all. Gibbs was a little off in serving and Heywood was not playing in his usual form; so their opponents won the set with comparative ease. The score:

Dana and Fogg.....1 2 3 0 5 0 7 8-6
Heywood and Gibbs.....0 0 0 4 0 6 0 0-2

The second set was a great contrast, the Maine State men getting up to the net more and making some good smashes. The score:

Heywood and Gibbs.....1 2 3 4 5 0 7-6
Dana and Fogg.....0 0 0 0 0 6 0-1

The last set was very exciting and our boys should have won as they had the set 5-3 once, but the Bowdoin men braced and won the next four games, taking the set and match. The score:

Dana & Fogg.....1 0 0 4 5 0 0 0 9 10 11 12-7
Heywood & Gibbs..0 2 3 0 0 6 7 8 0 0 0 0-5

HEYWOOD VS. WEBSTER.

This match was interesting—decidedly interesting. Heywood thought he could play about as he pleased, but he soon found his mistake. Webster was playing much better than he had ever played before. His left hand drives and smashes were as good as those he made with his right. Heywood was looked upon as a sure winner, and with Webster's defeat the Bowdoin men would be shut out of

the finals; so when Webster managed to capture the first set by good placing there was considerable excitement.

Webster.1 0 0 4 5 6 7 8-6
Heywood0 2 3 0 0 0 0 0-2

The second set saw Heywood take a brace. The play was quite sharp at times and the crowd of spectators were highly interested. The score:

Heywood0 2 3 4 0 6 7 0 9-6
Webster1 0 0 0 5 0 0 8 0-3

Webster kept up his good work in the third set, but Heywood was also playing. The latter broke three or four strings in his racket and had to get a new one, but this did not affect his playing and he won the decisive set. The score:

Heywood0 2 3 0 5 6 7 0 9-6
Webster1 0 0 4 0 0 0 8 0-3

HEYWOOD VS. PETTIGREW.

The Final.

This match was played on Thursday afternoon, June 6. There had been a heavy rain the night before and the court was very heavy. At three o'clock the crowd began to gather, and by half past, over two hundred people were present. There was a great advantage in having the court next to the street as it was in much better condition. Mr. Pettigrew was very averse to playing but it was decided that it was fair for one as for the other and so the match began. Pettigrew won the toss and took the good side. The first set went to the Bates man easily, he playing at the net well while Heywood seemed to prefer the base line, owing to the court being very slippery. Score 6-1.

Heywood then went over to the good side and won, 6-1.

On the change again Heywood tried hard to offset the bad condition of the court but had to succumb, 6-4.

Heywood took the next set easily by a score of 6—2.

It was decided that during the last set the players should change on the odd numbered games. After a rest the play was resumed; Pettigrew appeared a bit exhausted while Heywood could have stood five sets more. Heywood lost the first game, then changed over to the good side and won two. Pettigrew took the next two on the good side and led, 3—2. They then changed again and the result was Heywood led, 4—3. A good many people thought that this would be kept up for an indefinite length of time, but not so. The excitement was quite intense and when Heywood managed to win one

game on the poor court everybody realized he had won the match and championship and he received great applause. The score now being 5—4 in his favor, he crossed to the good court and all that remained for him to do was to take one game, which he did—a love game and it was over.

THE SCORE.

Pettigrew	1	2	3	4	0	6	7—6
Heywood	0	0	0	0	5	0	0—1
Heywood	1	2	0	4	5	6	7—6
Pettigrew	0	0	3	0	0	0	6—1
Pettigrew ..	1	0	0	4	0	6	7 8 0 10—6
Heywood ...	0	2	3	0	5	0	0 0 9 0—4
Heywood	0	2	3	4	0	6	7 8—6
Pettigrew	1	0	0	0	5	0	0 0—2
Heywood ...	0	2	3	0	0	6	7 0 9 10—6
Pettigrew ..	1	0	0	4	5	0	0 8 0 0—4

THE INTERCOLLEGIATE FIELD MEET.

The first Intercollegiate Field Meet of the Maine Intercollegiate Athletic Association, held at Waterville on June 8, 1895, was in every way a success. The events were run off without the tiresome delays which are usually the cause of so much discomfort to contestants, as well as spectators. The new "left-handed" four lap cinder track proved to be better than it looked and gave general satisfaction.

As was generally expected, Bowdoin captured the pennant by a large margin. As was *not* generally expected, Maine State took second place quite easily. Colby came in third, with Bates at the bottom.

The list of the records made is as follows:

Event.	Record.	Winner.
100-yards dash,	11sec.	Horne, Bowdoin
1/4-mile run,	2m. 13 1/2 sec.	Soule, Bowdoin
120-yards hurdle,	17sec.	Horne, Bowdoin
2-mile bicycle,	5m. 42sec.	Harthorne, Colby

440-yards dash,	53 1/2 sec.	Kendall, Bowdoin
Mile run,	4m. 52 1/2 sec.	Soule, Bowdoin
220-yards hurdle,	30 1/2 sec.	Doherty, Bowdoin
220-yards dash,	23sec.	Horne, Bowdoin
Mile walk,	8m. 23 1/2 sec.	Pettingill, Bowdoin
2-mile run,	10m. 29 1/2 sec.	Soule, Bowdoin
Pole vault,	9ft. 9in.	Smith, Bowdoin
Putting 16-lb. shot,	35ft. 1in.	Bates, Bowdoin
Running high jump,	5ft. 4 1/2 in.	Borden, Bowdoin
Throw'g 16-lb. ham'r,	113ft. 6in.	Kimball, Bowdoin
Running broad jump,	20ft. 2 1/2 in.	Bolster, Bates

The following table shows the distribution of points among the four colleges:

College.	100-yds. dash.	$\frac{1}{4}$ -mile run.	120-yds. hurdle.	440-yds. dash.	Mile run.	2-mile bicycle.	220-yds. hurdle.	220-yds. dash.	Mile walk.	2-mile run.	Pole vault.	Putting shot.	Running high.	Throwing ham'r	Running broad.	Totals.
Colby.....	3	3	3	1	6	6	6	1	6	9	9	9	9	4	11	
Bowdoin ..	6	6	8	8	6	9	6	6	9	9	9	9	9	9	94	
Bates ..	3	1	1	1	1	1	1	1	1	1	1	1	1	1	9	
M. S. C.	1	3	3	3	3	3	3	3	3	3	3	3	3	3	16	

Our points were won as follows:—

Ellis '95, 3; Palmer '96, 3; Walker '96, 3; Holyoke '97, 3; Merrill '98, 4.

A few comments on the work of each man may be interesting.

Captain H. H. Heywood, '96, was the 100-yard mark, and then Horne unfortunate in that he had done little of Bowdoin began to pull up, and or no training, having devoted all his Palmer was soon in second place, time to tennis, and so was in no con- where he finished. If Palmer had not dition to win points at Waterville. been handicapped by a lame leg, However, he tied Cutts of Bates for which was due to an injury received third place in the shot-put at 32 ft. 8 in. in sliding a base the previous week, Cutts finally beat him by 3 inches. he would probably have won the race. If Heywood had been able to equal This was one of the nearest approaches to a first place.

his Maine State record of 33ft. 3 in., he would have taken second place. Perley Walker, '96, was our only man in the two-mile run. He won In the 100-yard dash he came in second place quite handily, coming in third, thus being shut out in the about two hundred yards behind finals. His heat was a fast one, 10 3-5 being made by the winner. In Soule of Bowdoin. The third man the hammer throw, Heywood was was just coming within sight when fourth, beating Cutts of Bates. In Walker breasted the tape. Walker the last trial heat of the 220-yard hur- ran well, keeping a very steady gait. dle, Heywood was leading his field J. A. Starr, '96, one of our long distance men, was unable to compete, by two or three yards when he struck owing to an injury which he received a hurdle with his spikes and fell on from a rusty nail. The nail pene- his head and left shoulder and arm, trated quite a distance into his foot, ten or twelve feet beyond. His arm and he has had considerable trouble was badly bruised and scraped from with it. Next year he will be with the shoulder to the hand, and his side the us, without doubt.

was strained. The fine black dust of the cinder track was so ground into the flesh that it could not be removed with a stiff nail brush. He was obliged to retire to the gymnasium and was unable to enter any more events. M. E. Ellis, '95, was our only man in the two-mile wheel race. He took second place. He set the pace nearly half the time, including the first four-fifths of the last lap. If he had watched his hardest man during the first three-quarters of the last lap, instead of setting the pace for him, he would have had a better chance for first place. If a man fears that he cannot sprint for the finish, it may seem best to him to set the pace all the time, but if he stays at the leader's rear wheel, he can see his man commence the sprint. When he sees that his man is going to sprint for the finish, he has the chance to pass him with a rush. Ellis rode a good race, considering that he was used to a two-lap track. His weak point is in not sprinting at the end of the race.

P. B. Palmer, '96, was shut out of the final of the 100-yard dash more by accident than by any lack of merit. Somehow Palmer did not understand the starter's signal and did not get away with them. As it was, he came near making good his losses and beating out Fairbanks of Bowdoin, the winner of the heat. Palmer is one of our best men in the 100-yard dash, and but for a poor start would have counted in the final. In the 220-yard dash, Palmer was our only man in the final. It was a hot race from start to finish. Palmer led from the start to

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Throwing hammer	Running broad	Totals
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9	4	13
3	5	8
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W. L. Holyoke, '97, took second place in the mile run, finishing next to Soule of Bowdoin. Holyoke runs in excellent form, and will do well for us next year. He is very well built for a runner. He probably would have taken third place had he run in the two-mile, also, but as Walker was looked upon as good for second place in it, and Holyoke was somewhat tired out, it was thought best not to have him run.

H. P. Merrill, '98, did well in the mile walk. He should have been awarded first place on account of a foul made by Pettengill of Bowdoin. Pettengill was leading at the end of the third lap, and thinking that it was the end of the fourth lap, he stepped from the track. As soon as he found out his mistake he returned to the track about fifty feet beyond the place where he went off, and managed to finish first, with Merrill second. He should have been disqualified, and Merrill should have been awarded the first prize. Pettengill should have returned to the track at the point where he left it. An appeal to the referee was ineffectual, but as we did not care very much for the two extra points, we did not object, only we would have liked what was our due. Merrill also took third place in the 120-yard hurdle race. He ran the high hurdles in excellent form, and more practice will develop the requisite speed to win next year.

M. A. Webber, '98, was entered for the sprints, but was shut out in the trial heats. His starting was not

what it should have been, and he did not run hard enough after he got going.

W. L. Ellis, '98, won his trial heat in the 440-yard dash, but in the final he could not hold out.

G. W. Bass, '97, our only man entered for the pole vault, was unable to compete, owing to a "game leg." It was thought best to save him for the Maine State—Bowdoin ball game on the following Monday, and so he did not compete.

C. S. Bryer, '97, was entered in several events but did not succeed in winning any points. Bryer is a good all-round man.

G. W. Leavette, '97, was entered in the half-mile run but did not finish.

The prizes given the winners of points were silver medals for first places and printed badges for seconds and thirds. The medals were quite plain, but very neat and tasty. The badges were also very nice.

The following were the officers of the day:

Track Events—Referee, E. H. Carlton; Judges of Finish, Prof. A. J. Roberts, J. F. Larrabee, Dr. Dyer; Timers, Mr. Knight, E. T. Wyman, P. B. Gilman; Judge of Walking, Elias Thomas, Jr.; Starter, Dr. Whittier; Clerk of Course, Dr. W. S. Bayley; Scorer, W. L. Waters.

Fixed Events—Measurers, E. E. Gibbs, R. L. Thompson; Judges, Prof. H. B. Jackson, Lieut. Hersey; Scorers, J. W. Crawford, W. L. Gray; Marshal, R. B. Plaisted.



THE CADET.

NEW SERIES.

VOLUME X.

OCTOBER, NOVEMBER, 1895.

Nos. 4 & 5.

CHANGES IN THE FACULTY.

AT the beginning of this new collegiate year there are many noticeable changes in the various college departments, but of these the most important, as affecting nearly the whole student body, are those changes which have been made in the make-up of the faculty.

There is an old saying, "It never rains but it pours," and the truth of this seems to be well borne out when we look for its confirmation in these faculty changes. Instead of there being only one or two, as one might expect, it so happened from a conjunction of many causes that nine changes or additions were made at the same time.

The first of these was necessitated by the fact that the detail of Lieut. Hersey as Professor of Military Science and Tactics expired last June. Lieut. Hersey is succeeded in this position, which he has so acceptably filled for the past four years, by Capt. W. S. Edgerly, of the 7th U. S. Cavalry, who was born in Farmington, N. H., May 29, 1846. He prepared himself in public and private schools and at Phillips Exeter Academy for West Point, from which place he graduated in 1870 with the appointment of 2nd Lieut. of 7th Cavalry, receiving his appointment as 1st Lieut. in 1876, and as Captain in 1883.

After leaving West Point his first service was in Kansas until April, 1871, followed by two years' duty in Kentucky, Mississippi, South Carolina and Alabama, hunting Ku-Klux and illicit distillers.

In 1873 and 1874 he was on duty with the escort to the northern boundary survey and on garrison duty in Dakota in 1875. The following year he accompanied Gen. Terry's expedition against hostile Sioux Indians and was engaged in the famous battle of Little Big Horn and after that was in the field guarding the Black Hills Stage Line.

In 1878 he was in the field in Dakota and Nebraska after hostile Cheyennes, being present at their final surrender, and in the four succeeding years he was occupied by garrison duty in Dakota.

In 1883 and 1884 he was on recruiting duty in Cincinnati, Ohio, and the next five years was on duty in the garrison and field in Montana, Kansas and South Dakota, during which time he participated in the battle of Wounded Knee and the engagement of White Clay Creek, both occurring in South Dakota and in December of 1890.

From December, 1892, to July, 1893, he was in Texas on the Rio Grande after "General" Garza, the revolu-

tionist, and from that time till August, 1895, when he came to take up the work here, he was occupied with garrison and field duty on or near the Rio Grande.

Then the one year's leave of absence which has been granted to Professor Grover in order to enable him to do some advanced work in the Massachusetts Institute of Technology, leaves a vacancy in the Civil Engineering department which Mr. Elmore D. Cummings will fill.

Mr. Cummings was born in Indiana County, Pa., in November, 1861. He prepared himself, mainly by private study, for the classical course in Washington and Jefferson College at Washington, Pa., at which school he spent part of the Freshman year in 1883. His study was then interrupted for two years, after which he entered Cornell, pursued the regular Civil Engineering course for four years, and graduated in the class of '89.

Upon graduation, for about one and one-half years he was employed by Ferris & Co. (builders of Ferris wheel) as inspector of bridge and steel building construction. Following this he was engaged as draughtsman and assistant engineer for the Columbus Bridge Co., Columbus, Ohio, and then with John A. Cole, C. E., of Chicago, in water works and sewer construction and with contractor of steel buildings in Chicago. Since then he was with E. L. Corthell, C. E., as assistant engineer and draughtsman in bridge construction and design and was Instructor in Civil Engineering in Washington University, St. Louis, Mo., where he was assistant to Prof. J. B. Johnson, with whom, in the winter of '94-'95, he was engaged in the testing laboratory

of Washington University on the U. S. "Timber Physics" work. His last work before coming here was to make a topographical survey for a land company at Quincy, Illinois.

Prof. Stevens having also been granted a leave of absence to take special work at the Chicago University, his recitation work is carried on by Mr. Burton S. Lanphear, who takes Mr. Chapin's place as Instructor in Electrical Engineering.

Mr. Lanphear was born in Carthage, N. Y., and his preparatory education was obtained in the Carthage High School. In 1890 he entered Cornell, where he was elected to the honorary society the Sigma Xi, graduating in the class of '94 with the degree of M. E. in Electrical Engineering. After graduation he was employed by the Electrical Light and Power Co. of Ithaca, N. Y., and in the fall resigned the position of First Electrician there to accept a fellowship worth \$500 in Cornell University, where he took one year's graduate work and at the end of the year took the degree of M. M. E.

On account of the increased number of students it has been found necessary to get some one to take charge of the work in modern languages which has heretofore been carried on by Prof. Esterbrooke in connection with his work in Rhetoric and the English branches.

The college has been very fortunate in securing, as instructor of modern languages, Mr. Edwin Bryant Nichols, who was born in Hartford, Conn. He prepared himself in the Hartford Public High School, for the Wesleyan University of Middleton, Conn., from which he graduated in the class of '94

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with the degree of A. B. and honors in the Romance languages. Immediately upon graduation he went to Germany where he studied for a year in the University of Leipzig, making a specialty of the Romance languages, under such authorities as Wegod and Prof. Seivers whose text books are so well known.

From Germany he went to Paris from which place after a few weeks he returned to America.

Mr. W. F. Jackman, who comes as Instructor in Pharmacy to take his place at the head of that department, was born in Lapeer Co., Michigan, received his early education in the schools of N. Maccom Co. and in 1880 removed to Ann Arbor to fit for the University. After two years work in the High School there he entered the University of Ann Arbor, graduating in 1886 with the degree of B. S. and after one year's work in the Pharmaceutical department he took the degree of Ph. C. Since then and up to the time of his coming to Maine State he has been practicing pharmacy.

The other new members of the faculty are well known to all but the entering class and are as follows:

Frank Damon, Tutor in Physics, was born in Buenos Ayres, S. A., in 1870 and lived there twelve years.

He fitted for College at the Hampden Academy and entered the Sophomore Class of Maine State College in 1892. During the last two years of his course he was Student Assistant in Physics and graduated in '95 with the degree B. S.

Wendell W. Chase, Instructor in Drawing, was born in Foxcroft in 1875, fitted for College at the Foxcroft Academy and entered the Sophomore Class of Maine State College in 1892. During his Junior year he was illustrator of his class annual, the "Prism," and in his Senior year was illustrator of the "Cadet," graduating in '95 with the degree B. C. E.

Halbert G. Robinson, Instructor in Mathematics, was born at Patten, Me., in 1873 and fitted for College in the Patten Academy. He entered the Massachusetts Institute of Technology in 1891, but left at the end of the first year to enter the Sophomore class of the Maine State College, from which he graduated in '95 with the degree B. C. E.

Ora W. Knight, Assistant in Natural History, was born at Bangor, Me., in 1874, and fitted for college in public and private schools of Maine and California. He entered the Maine State College in 1891 to take the course in Chemistry, being particularly interested in work in the line of Natural History, and graduated in '95 with the degree of B. S.



THE NEW COMERS.

WHO of the students in college four or even three years ago, would have dared to prophesy that at the present time a class would enter that would be as large in numbers as the whole college was at that period? Although a good many, probably, wished that they could have safely said that the above would happen, it was hardly expected that the growth of the college would be so rapid. The number of new students this fall exceeds that of last year, numbering an even one hundred, of which number, nine are young ladies. The number taking the regular four year course is eighty-six. Of these, thirty-nine have not decided which of the eight courses that Maine State places at their disposal they will pursue; twenty have signified their intention of taking the course in Electrical Engineering, six that of Civil Engineering, six the course in Mechanical Engineering, four in the Chemical course, five the course in Science, three in Pharmacy, two in Agriculture and one in the Medical Preparatory course.

Of the remaining fourteen who will take shorter courses, eight have registered for the two year course in Pharmacy, two will pursue the course in Library Economy, two will take special courses and two will enter the Sophomore class.

One thing to be noticed as a good sign of advancement is the decrease in the number of special students entering; not that specials are not desirable, but that Maine State, like every other institution, prefers those who can be counted on for remaining a definite length of time.

Another noticeable thing, and perhaps quite significant of the times, is the popularity of the Electrical Engineering course. This will no doubt increase as the years go on. The course in Pharmacy also is proving to supply a long felt want in the State, starting out with a net total of eleven students, which is very promising, considering this is the first year and the fact that a great many pharmacists in Maine regard it as an experiment.

The following is the entire list of new students:

	<i>Course.</i>
Fred M. Armes, Gardiner,	Mechanical Engineering
Eben P. Bassett, Bangor,	Electrical Engineering
Frank L. Batchelder, Machias,	Undecided
Chas. S. Beckwith, Fort Fairfield,	"
John H. Bixby, Anson,	"
Oscar M. Bixby, Anson,	"
Chas. E. Blackwell, Madison,	Mechanical Engineering
Alson E. Beynton, Alna,	Undecided
Fred P. Bradford, Eastport,	Chemistry
Howard Brett, Bangor,	Electrical Engineering
John W. Brown, Brimfield, Mass.,	"
James C. Campbell, Bath,	"
Rufus H. Carlton, Cedar Grove,	"
Winfield B. Caswell, Waterville,	Mechanical
James E. Closson, Monson, Mass.,	Chemistry
Cyrenius W. Crockett, Rockland,	"
Charles E. Crosby, Albion,	Undecided
George H. Cummings, Bangor,	Electrical Eng.
Norman E. Curtis, Lisbon Falls,	"
Marion L. Davis, Bangor,	Undecided
Marshall B. Downing, Dover,	Electrical Eng.
Irving H. Drew, Bar Harbor,	Undecided
William E. Dyer, Calais,	Civil Engineering
Maud L. Farnham, Stillwater,	Pharmacy
William E. Files, Portland,	Civil Engineering
Leonard H. Ford, East Eddington,	"
Arthur H. Fortier, Oldtown,	Undecided
Roy C. Getchell, Brewer,	Chemistry
Archer L. Grover, Bethel,	Undecided
Roscoe Guptill, Waterville,	Electrical Eng.
Alexander F. Harlow, Auburn,	"
George W. Hersey, Portland,	"
Harry S. Heyes, Friendship,	Undecided
Walter S. Higgins, Bangor,	"
George L. Hilton, Bradley,	"
Mary A. Hopkins, Bangor,	Undecided
Hall F. Hoxie, Waterville,	Electrical Eng.
Philip C. Jack, Gardiner,	Science
George T. Jones, North Fairfield,	Undecided
Thomas Judge, Biddeford,	Electrical Eng.

Harry I
Edwin
Frank A
Howard
Edward
Herbert
Ralph I
Harold
Gardner
William
Rena E
Edwin S
Frank A
William
William
Herman
Hermone
Edward
Ralph S
John L.
Maurice
Mildred
Henry J
Charles
Ralph M
Fred W
Charles
Stanley
Alfred I
Clinton
Edwin I
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THE NEW COMERS.

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	Course.		Course.
Harry H. Leathers, Hermon,	Electrical Eng.	Annie M. Snow, Orono,	Undecided
Edwin S. Levensaler, Thomaston,	"	Maud W. Snow, "	"
Frank A. Libby, Portland,	Civil Engineering	Guy H. Soule, Freeport,	"
Howard L. Maddocks, Skowhegan,	"	Allen W. Stephens, Oldtown,	"
Edward R. Mansfield, Orono,	Agriculture	Frank M. Stinson, Bath,	"
Herbert P. Mayo, Boston, Mass.,	Undecided	Oliver O. Stover, Freeport,	Science
Ralph H. McPheters, Orono,	"	John H. Swain, Skowhegan,	Undecided
Harold W. Merrill, Freeport,	"	John F. Thomas, Brownville,	"
Gardner H. Miller, Rockland,	Electrical Eng.	Amariah C. Trim, No. Islesboro,	"
William B. Morell, Amherst, Mass.,	"	Fred L. Varney, East Lowell,	Science
Rena E. Morrisette, Stillwater,	Pharmacy	Marcellus M. Veazie, Islesboro,	Undecided
Edwin S. E. Mosher, Presque Isle,	Undecided	Arthur C. Wescott, Portland,	Electrical Eng.
Frank A. Moulton, Limington,	Mechanical Eng.	Charles C. Whittier, Skowhegan,	Undecided
William A. Murray, Pittsfield,	Undecided	TWO YEAR COURSE IN PHARMACY.	
William Nelson, Cumberland,	Mechanical Eng.	James A. Bird,	Presque Isle
Herman F. Noyes, Freeport,	Undecided	Paul D. Higgins,	Costigan
Hermon H. Oswald, Philadelphia, Pa.,	"	Alvin W. Keirstead,	Durham
Edward E. Palmer, So. Bridgton,	"	Ernest J. McCrillis,	Henniker, N. H.
Ralph S. Pendexter, Meriden, Ct.,	Medical Preparatory	Will G. McCrillis,	"
John L. Pierce, Machias,	Pharmacy	Albert J. Nute,	Boston, Mass
Maurice H. Powell, Orono,	Undecided	Everett Sawyer,	Oldtown
Mildred L. Powell, "	"	Charles H. White,	Orono
Henry J. Pretto, "	"	LIBRARY ECONOMY.	
Charles L. Pulsifer, East Poland,	Agriculture	Mrs. Grace V. Rolfe,	Orono
Ralph N. Robinson, Machias,	Electrical Eng.	Carolyn W. Spurling,	Brewer
Fred W. Rollins, Ellsworth,	Civil "	SPECIALS.	
Charles C. Scott, Dexter,	Electrical "	Frederic L. Garrigues, Waterbury, Ct.,	Electrical Eng.
Stanley Sidensparker, East Waldoboro,	Undecided	Mellen E. Warren, Dover,	Mechanical "
Alfred B. Small, Yarmouthville,	Mechanical Eng.	The following men enter the Sophomore class:	
Clinton L. Small, Auburn,	Science	Charles T. Eldridge, Foxcroft,	Mechanical Eng.
Edwin M. Smith, Gardiner,	Electrical Eng.	Albert D. Robinson, So. Windham,	Civil "
Freeman A. Smith, Thorndike, Mass.,	Science		

THE ANNUAL ENCAMPMENT.

THE annual encampment for 1895 of the Coburn Corps of Cadets occurred at Presque Isle, Me.

The start was made Friday morning, October 4th. Reveille sounded at 4.30 and assembly for the march to the station at 5.50. The cadets marched to Webster and took the regular 7 A. M. B. & A. train from Bangor. The journey up to Presque Isle was without special incident, the corps arriving at Presque Isle about 2.15 P.M.

On their arrival the battalion was immediately formed and, after the baggage had been unloaded, was marched to the camping grounds, which were situated in the Trotting Park, about ten or fifteen minutes walk from the station. The companies immediately commenced pitching their tents and soon the camp began to take on a familiar aspect.

The chief trumpeter here put a decided stop to further proceedings by sounding "mess call," which was very promptly responded to by the whole corps. Mess was served in a large room under the grand stand. Long tables had been provided and an efficient corps of waiters, so everything passed off very smoothly. The food was very good, both in quality and quantity.

In the evening a dance was held at the Opera House, but owing to the indisposition of the young ladies present, it was converted into a so-called "stag-dance"—a term perfectly familiar to college boys.

On Saturday the camp routine was really begun. The following service calls governed in this camp :

Reveille, 1st call,	5.45 A.M.
Assembly,	6.00
Setting-up drill, five minutes.	
Breakfast,	6.30
Police call,	7.00
Company drill, 1st call,	7.45
Assembly,	7.50
Recall,	8.20
Guard mounting, 1st call,	8.55
Assembly,	9.00
Band practice, one hour following guard mounting.	
1st Sergeant's call,	11.00
Dinner,	12.00 M.
Battalion drill, 1st call,	3.20 P. M.
Assembly,	3.30
Recall,	4.30
Retreat parade, 1st call,	4.45
Assembly,	4.50
Supper,	5.00
Tattoo, sounds off,	9.00
Taps,	10.30

The battalion was organized this year as follows :

STAFF.

Major—Frank L. Marston.
1st Lieut. and Adj.—Paul D. Sargent.
1st Lieut. and Qm.—Chas. P. Weston.
1st Lieut. and Chief S.O.—J. A. Starr.

NON-COMMISSIONED STAFF.

S'g't Major—William T. Brastow.
Qm. Sergt.—Justin R. Clary.

BAND.

1st Sergt.—Stanwood H. Cosmey.
2d Sergt.—Perley F. Goodridge.
Corp'ls—Geo. A. Whittemore, H. P. Merrill, C. A. Merrill.

SIGNAL SECTION.

2d Lieut.—Lore A. Rogers.
1st Sergt.—Myron R. Russell.

CO. A.

Capt.—Perley Walker.
1st Lieut.—Harry C. Farrell.
2d Lieut.—Herbert L. Niles.
1st Sergt.—Chas. S. Bryer.
2d Sergt.—Wm. L. Holyoke.
3d Sergt.—Ernest H. Macloon.
4th Sergt.—Frank E. Gorham.
Corp'ls—H. O. Libby, E. E. Nowlan, C. P. Crowell, R. D. Tarr.

CO. B.

Capt.—Herman S. Martin.
1st Lieut.—Frederick A. Hobbs.
2d Lieut.—Warren R. Page.
1st Sergt.—Steven S. Bunker.
2d Sergt.—Joseph W. H. Porter.
3d Sergt.—Byron F. Porter.
4th Sergt.—Edwin C. Upton.
Corp'ls—S. C. Dillingham, E. A. Sturgis, John W. Dearborn, D. T. Merrill, A. D. T. Libby.

CO. C.

Capt.—Beecher D. Whitcomb.
1st Lieut.—Gardner B. Wilkins.
2d Lieut.—Joseph W. Randlette.
1st Sergt.—Harvey A. White.
2d Sergt.—Allen Rogers.
3d Sergt.—Tyler H. Bird.
4th Sergt.—John P. Chase.
Corp'ls—Harry A. Higgins, A. A. Starbird, W. D. Ellis, C. S. Webster, H. Seavey.

CO. D.

Capt.—Perley B. Palmer.
1st Lieut.—E. Everett Gibbs.
2d Lieut.—Gilbert Tolman.
1st Sergt.—Stanley J. Heath.
2d Sergt.—Geo. G. Leavette.
3d Sergt.—Geo. P. Albee.
4th Sergt.—Wm. C. Robinson.
Corp'ls—L. E. Ryther, Ralph Hamlin, B. A. Gibbs, A. L. Whipple, R. P. Stevens.

In order to hold the dress parade inside of the Trotting Park it became necessary to make a change in the plan of the camp. This was finally met by moving back the tents of the Field and Staff as far as possible from the corps tents and thus making room for the parades to be held in between them. The drilling of the corps as a whole in camp was not as good as it has been in former camps but was still very creditable, especially the guard mounting and dress parade ceremonies. The company drills were greatly hampered by the small size of the companies and of course much progress in company movements could not be made. However, they were as good as could be expected under the then existing conditions.

The battalion drills were fairly

acceptable and good progress and improvement was made during the week in all the drills.

The camp routine was varied slightly on Saturday by the advent of a horse-trot at the Park. Drills were suspended with the exception of dress parade and battalion drill, in order to give the cadets an opportunity to witness the trot. In the afternoon the Corps Band took a position in the grand stand and enlivened the programme with many pleasing selections, which were greatly appreciated by the assembled throng.

Sunday, all drills were suspended. At 11 o'clock the Corps fell in and marched to church service. Each company attended a separate church, the band and signal section taking the other of the five churches in the town. The remainder of the day was spent around town or in visiting Fort Fairfield, Caribou or Houlton.

The camp was named H. B. Cleaves, in honor of the Governor of Maine, who has taken such a great interest in the military affairs of the state, both in the National Guard and in the work of the Cadets.

This year the cadets had no wooden floors in the tents as they did last year at Portland, and only a very limited number of camp stools were taken. This was done in order to accustom the cadets to hard service, and to make the camp as similar to an actual camp in time of war as possible.

As the camp was located inside the Trotting Park, which of course was fenced in, a large number of posts for sentinels were not required. There were six men on between reveille and retreat, while between retreat and reveille there was only one at the gate. Owing to this fact, there was no "running guard" as in former

camps and for this reason the guards did not have nearly as much work to do as formerly. However, the guard duty was fairly well performed, although it is to be hoped it will be improved upon in the future camps.

The social side of Camp Cleaves was very pleasant, the citizens of Presque Isle, especially the Aroostook Alumni Association of M. S. C., doing everything to make the stay of the cadets pleasant and agreeable.

On Wednesday evening a reception was tendered the cadets by the Alumni Association and was very successful. A dance was held at the Opera House and at intermission refreshments of sandwiches, coffee, cake, ice cream, etc., were served in the banquet hall of the Presque Isle House, after which dancing was again resumed. Capt. W. S. Edgerly, the Commandant of the Cadets, was very lenient in granting permission to cadets to "stay out after taps" and this privilege greatly added to the enjoyment of the encampment.

The weather, as far as raining was concerned, was very pleasant and all that could be expected, but it was exceedingly cold at night and during some of the days. It was so cold during one day that a bottle of ink froze up and burst on a table in one of the tents at about 9.30 A.M.!

There was only one rainy day during the week and that day the cadets moved down to the Exhibition Building, made up beds on the floor and remained over night. This was one of the quietest (?) nights passed in camp, especially about the time a good sized squash took the Chief Trumpeter of the Corps—who was sleeping the sleep of the just and innocent—upon his noble chest with a dull thud. At that time silence

spoke, louder than words. Next the writer, however, that the encampment morning dawned bright and clear again and the cadets packed up and were held in the spring, for several returned to their quarters in the tents, reasons. First, the new men, and in leaving the "Barracks" in a state of fact the whole corps would be better which can better be imagined than drilled and naturally would present described.

Thursday evening the Cadet Band went down to the Opera House, where the Frankie Carpenter Opera Co. was playing during the week, and discoursed sweet music between the acts. It sounded finely and was greatly appreciated by the audience assembled. After the play the settees were removed and dancing was indulged in until a late hour.

Friday was the day set for our return to Orono and after breakfast everything was put in readiness to leave. The bedding went down to the station first, then each tent was freed from its guys and a man placed at each pole. At the last bugle note of the "General," all tents went down as one and were immediately placed in bags and tied up for shipment; then, after a light lunch at the mess hall, the corps fell in for its last march and immediately started for the station and took the 11.05 train for Webster.

The train was delayed for about an hour, however, near Stacyville, on account of trouble with the brake of the baggage car. When the train reached Old Town a freight car was found across the track, effectually stopping any further progress. A great number of the cadets here took the electrics for the college, while others took the Bangor train and came through to Bangor, returning to their homes from there.

Taken as a whole, the camp was fairly successful; it is the opinion of

a much finer appearance than they do in the fall. Second, the weather would be much more suitable for camping in the spring than it is in the fall, and the corps could with comfort take white trousers to camp, which add seventy-five per cent. to their appearance, especially on parades. There would also be less danger of taking cold in camp and suffering from the effects of it after the return to college.

Some rather amusing questions were asked during the Presque Isle encampment, indicating, to a certain extent, how great is fame. For example, the question, "How much do you charge for admission?" was frequently asked and evidently in all seriousness. A gentleman approached one of the cadets in Fort Fairfield and calmly inquired, "What circus are you fellows following?" and "What time do you give your performance?" Such questions as these naturally sounded rather odd to some of the members of the Corps and furnished a great deal of amusement to them.

There was a fairly large number of visitors at the camp, some of the dress parades being very well attended.

In partial return for the many kindnesses extended the corps during the stay at Presque Isle, THE CADET extends a cordial invitation to the people of Presque Isle, especially to the college alumni, to visit the campus at any time during the college year, hoping that the visit will be a most pleasant and agreeable one to them.

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C. P. W.
H. A. V.
W. L. I.

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EDITORIALS.

THE CADET.

EDITORIAL STAFF.

E. E. GIBBS, '96,	F. L. MARSTON, '96.
L. A. ROGERS, '96,	W. T. BRASTOW, '97.
C. P. WESTON, '96,	W. L. HOLYOKE, '97.
H. A. WHITE, '97,	W. J. MORRILL, '98.
W. L. ELLIS, '98,	

BUSINESS STAFF.

P. B. PALMER, '96, Manager.
A. H. TAYLOR, '98, Assistant Manager.

TO CADET READERS:

We regret very much the unavoidable combination we have been obliged to make of the October and November numbers of **THE CADET**, owing to the straightened circumstances which confront us in the work. We sincerely hope that all interested in the placing of **THE CADET** on a sound financial footing will remit their subscriptions in advance if possible, and thus assist in making our college magazine what it should be.

THE EDITORS.

* * *

ANOTHER turn in the wheel of time has been completed, the long vacation is now but a pleasant remembrance, the early returned delinquents have had a go with their arrearage examinations, and a motley crowd of dissimilar beings known as freshmen, have crossed the threshold and entered the portals of their college career in search of an education. To ninety-nine **THE CADET** extends a most cordial welcome, and hopes in its four years of life at Maine State it will as a class uphold the interests of the college, get as much out of the course as possible, and conduct itself with the dignity that becomes a class graduating at the end of this great nineteenth century.

ONE of the characteristics of this class is the large number of young ladies who have signified their intention of contesting for a Maine State degree. Whether the fact that the number of ladies entering is increasing each year should cause any alarm lest the college should become a "female seminary," as it does a neighboring daily paper, is a question to be looked at from several points of view. A great many of the male undergraduates seem to regard co-education at Maine State as an evil to be shunned, while there are others—we will not mention any names—who hail with joy the influx of the gentler sex into our midst and think that they should be looked at as a blessing, a source of culture and refinement. While we are not prepared to express an opinion on the subject, we do advance the belief that as long as the courses of study here remain strictly technical, there will be no chance for a wail of woe from the pessimists or shouts of joy from the "ladies' men" for under these conditions we believe that the "co-eds" will continue to be in a considerable minority.

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OWING to the continued financial embarrassment which hovers about **THE CADET**, we are sorry to say that the reduced size of the magazine will prevail until the path of the business department is not strewn with so many thorns. It is exceedingly unfortunate, at the moment of the college's greatest growth, that this state of affairs should exist, as the enlargement and expansion of the college magazine should be parallel to that of the college. **THE CADET** should now be in the height of prosperity, in fact, booming, but suffice it to say that such is not the case, and the co-operation of the alumni, faculty,

students and every one concerned in the institution is asked for, that the next board of editors will not be hampered by the existing difficulties.

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It is needless to inform our readers that the foot ball team has not been the success that was expected. It has been defeated by large scores in every game and has only been able to score against its opponents once. It is not very difficult to find the reasons for this failure. In the first place, the team is light, averaging less than 150 pounds. However, no one can be blamed for this, as there are very few heavy men in college. This handicap might have been largely overcome by snappy team work, but this would necessitate hard practice and faithful training; conditions which have been sadly lacking this season. A few men have worked and trained as all foot ball men should, and the results are very evident in their superior playing. If there had been more of this there would be less delays for injured players to get their "wind." Another cause of failure has been the poor support the team has received. The student body should not expect a team to do its best when only twelve or fifteen men get out for practice, as has been the case most of the time this year. If there was more competition for positions on the team there would be no cause to complain of indifferent work and training. The fact that the drill hour came at the only time available for practice, injured the team very materially. At the first of the season the team had the benefit of a very competent coach, but his work was greatly hampered by the lack of time which could be devoted to practice by the candidates.

Let us not be discouraged by this season's failures, but profit by them next year and there will be no question as to the outcome. Undoubtedly the seniors remember the aggregation that repre-

sented our college on the diamond in their freshmen days. Some of the scores were larger than the foot ball scores this year and always the same way. The next year we had no cause to be ashamed of our team and the next we were immensely proud of it. Let us see if history cannot be made to repeat itself.

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WHAT we consider as a marked tribute to the military department of the college, is the appointment by the government of as high an officer as a captain to take the position of military instructor so ably filled for four years by Lieut. Hersey. At the completion of Lieut. Hersey's work here the standing of the military department was no doubt the highest in its history and in the reign of an officer of Capt. Edgerly's high ability the high standard set by his predecessor should in no wise recede from the position which it now holds. Generally, the detailing of a captain for duty as a professor of military science and tactics is only made to universities and colleges of much larger magnitude than this, so the college should be congratulated on this special recognition of its prosperity.

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WHAT, with all the changes that have been taking place on and about the campus during the summer, one hardly knows where he is at. Oak Hall has literally undergone a transformation scene, and an old graduate, if dropped unexpectedly into its prettily oak-finished corridors, would think he was in paradise when compared with his old quarters. A big crew of electrical and mechanical engineers have been at work all summer on the college electrical plant, until now it is nearly completed and the arc lights that have been erected on the campus will soon be illuminating the country round about to an extent not fully appreciated by the giddy sophomore. Great expense has been met by the college in order that these improve-

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ments and additions could be made, and it is to be hoped that these costly changes will be appreciated by the students.

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The electric road between Bangor, Orono and Oldtown has at last become a reality, and to say that it is a convenience would not be expressing it at all; in fact, only those of us who have trodden the mile and a quarter to town through various inclemencies of the weather can begin to do so. The advent

of the trolley cars should be the cause of the beginning of a new epoch in the social life of the college, which has heretofore been only too dull. The society of the neighboring cities can now be cultivated with much more ease than formerly and is a thing much to be encouraged. The authorities of the road have kindly granted reduced rates to all concerned in the college, thus acknowledging the large patronage received.



A sad event was that of the death of Mr. Harry L. Holmes of the Freshman class, who died at his home in Augusta, October 21. Mr. Holmes entered in the course of electrical engineering, in which branch of study he was very much interested. He was very popular among his classmates and with all those who became acquainted with him, and his loss is keenly felt by all his friends. Mr. Holmes' sickness was of only a week's duration, but he suffered very much. An operation for appendicitis was performed, but the disease was so far advanced that it proved futile.

Messrs. Miller, Hoxie, Campbell and Smith of the Freshman class, acted as bearers at the funeral, which occurred in Augusta, Oct. 23. President Harris,

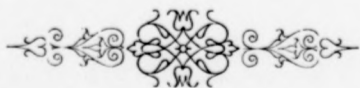
and also Palmer, '96, representing the *B Θ Π* fraternity, to which fraternity the deceased was pledged to become a member, were present at the services.

Resolved, That since Providence has seen fit to take from our midst our beloved friend and classmate, Harry L. Holmes, we hereby express our heartfelt sympathy for his family in their bereavement.

Resolved, That a copy of these resolutions be sent to the family of the deceased and also that they be forwarded to the press.

Committee on resolutions,

G. W. HERSEY,
C. L. SMALL,
C. W. CROCKETT,
MISS MAY HOPKINS,
J. W. BROWN,
H. H. OSWALD,
A. L. GROVER.



LOCAL NOTES.

Master, Master! News, old news, and such news as you never heard of.
—*The Taming of the Shrew*,—Act III, Sc. 2.

Who swiped the beans?

What's the matter with Haggety's new chevrons?

And now it is "Sergeant Robinson." Next man!

Reginald Fernald visited friends in town for a few days.

Prof. Hamlin attended the Atlanta Exposition at Alanta.

Hello! This is the — department of the Maine State College.

Capt. Edgerly has been sick with rheumatism at the Bangor House.

The Seniors and Juniors are arranging a class game of foot ball.

Bird and Stevens, of the class of '97, have been on the sick list.

Didn't we "cut ice" in camp this year? (Especially about 6.30 A. M.)

H. P. Merrill has been very sick with pneumonia, but is now improving.

It is "Sergeant Bartlett" now, "Nick" having been appointed on account of good looks.

Roast turkey was one of the favorite dishes while at Presque Isle. (Wild ones, of course.)

Prof. Munsón has recently been appointed Fellow of the Royal Horticultural Society of England.

We are glad to welcome back to his duties our Professor of Mathematics, who has been absent on leave for the past year, studying at Chicago University.

Our fire company has been reorganized, the places of the old men who have graduated filled by new, and every man assigned a place.

Every Saturday now sees the gunning cranks take a day's hunting trip. We haven't heard of any great amount of game being killed yet.

C. S. Bartlett, formerly of the class of '96, has returned to college after a rest of two years, and is taking the two years course in Pharmacy.

The foot ball team didn't go to Lewiston Oct. 31st, as planned, as about half of the team failed to wake up in season to catch the train. They must have had "that tired feeling."

Dr. Harris and family spent a short time last month at Ashbury Park, N. J. Dr. Harris was busy all summer looking after the changes which have been made about the college and so took a short vacation and much needed rest.

At the Experiment Station work is being done in food analysis, also glasses for the various creameries of the State are being tested, in accordance with the law passed last winter requiring the testing of glasses used in the Babcock test.

What a great convenience the electrics are! And right here you want to remember that if you take your registration ticket to the Superintendent he will give you a card which will save your paying that extra nickel from Bangor to the college.

Junior rhetorical in chapel go on quite steadily now every morning, for the decree has gone forth that whoever fails to speak when due, without satisfactory explanation, will be suspended from recitations until he does declaim.

Messrs. Bartlett and Merrill attended the meeting of the Association of Official Agricultural Chemists at Washington, D. C., September 5th, 6th and 7th. This association includes all chemists connected with U. S. Stations, and inspectors of fertilizers.

The change of the drill hour from 1 to 4.10 P.M. doesn't seem to be a very popular one among the boys, as it interferes so much with foot ball practice. We understand the change was made for the convenience of those living outside of the campus.

The Junior Civils are at work on the survey of a road to be known as the Webster and Stillwater R. R. It joins the B. O. & O. Electric Road at its junction with the old Veazie R. R. and strikes the M. C. R. R. at Webster, making a road about two miles long.

With such a large entering class, containing so much good foot ball material, it seems as though, with good coaching, we ought to put a team in the field this fall that will not come out last by any means, should a league with the other colleges of the State be formed, as all hope there may be.

The Y. M. C. A. was represented at the annual convention of the Y. M. C. A.'s of Maine, held at Bath October 25-27, by six delegates: President Tolman, '96, Holyoke and Clary, '97, Ryther, '98, and Small and Varney, '99. A good time and interesting meetings are reported.

A few changes in text books have been made this year. "Lanza's Applied Mechanics" has been changed for "Mechanics of Engineering," by Church. This book includes Hydraulics, studied by the Seniors. Also "Wells' Solid Geometry" has taken the place of "Wentworth's," formerly used.

The Senior Mechanicals under the charge of Prof. Flint attended the Mechanics' Fair in Boston, leaving Bangor on steamer Lewiston of the B. and B. line, Oct. 16th, and returning on the City of Bangor, Oct. 23d. It is reported that seasickness was not an altogether unknown pleasure (?) to some.

Prof. William A. Pike, of Minneapolis, brother-in-law of Mrs. Valentine, formerly Professor of Engineering at Maine State College, died recently at the age of 45 years. In 1879 he accepted a position at the head of the Mechanical Engineering department at the University of Minnesota. Afterwards he was engaged in engineering on his own account.

In response to a notice posted in Wingate Hall Oct. 23, a number of students met in the chapel and formed a Gun Club. Ralph H. Rockwood, '98, was elected President and H. E. Stevens, '97, Secretary and Treasurer. It was voted that the name of the club be "The Maine State College Gun Club." It is planned to have a grand side hunt late in the fall, followed by a game supper. The losing side to pay for the supper.

One Saturday, a few weeks ago, a Freshman by the name of B— met a young lady from one of the neighboring towns and accompanied her home. He must have been unusually fresh and tiresome, even for a Fresh-

man, as the young lady retired, leaving him on the sofa, where he was discovered, asleep, by her mother, about eight o'clock Sunday morning, and invited to stop to breakfast, but with customary freshman modesty he politely refused.

We have recently received notice of the publishing of the twelfth edition of *The Architect's and Builder's Pocket Book* of mensuration, geometry, geometrical problems, trigonometrical formulas and tables, strength and stability of foundations, walls, buttresses, trusses, floors, roofs, etc. Also a new book just published, "*Churches and Chapels*," which contains plans and perspectives for seventeen churches of varying size and cost. These books are of special interest to us on account of their authorship, their author being Frank E. Kidder, C. E., of the class of '79. A copy of "*Churches and Chapels*" can be found in the library.

While we were at work in the Lab. Monday, Sept. 16th, suddenly two slight explosions were heard, followed by the cry, fire! fire! In an instant all was commotion; even the dignified seniors were seen to move with exceptional velocity in the direction of the door. On gaining the outside we saw there was due cause for alarm. The smoke in dense volumes was pouring from the skylight in the ell and then suddenly red tongues of flame followed, which, in the language of a looker-on, was "wicked." But the fire laddies responded bravely and no sooner had the flames burst forth than two streams were playing upon the building. Ladders were planted and our boys grappled with the foe hand to hand and very soon the Fire King was uncrowned and "all out" was sounded. It is useless to try to

explain the cause or causes of the fire, but from it we can gain a valuable lesson in carefulness. And again let us sound the praise of our Student Fire Company, and every man in the Maine State College, and indeed every man in the entire state should feel proud that we have such an organization to save property and perhaps more valuable human life. The Orono Fire Company turned out but only came up part way before they found that they would not be needed, as the fire was already under control. We ought to congratulate ourselves upon having got off so easily, as it would have been an easy matter for not only the Laboratory, but also for Wingate Hall to have been destroyed.

The Chemical Laboratory seems doomed to destruction, for about 10.30 on the evening of November 2nd, fire was discovered in the basement. An alarm was given and the boys turned out lively and soon had a couple of streams playing on the fire, but in about half an hour the water in the stand-pipe gave out. Then came about ten minutes, which seemed hours, before the pump could be made to work, although the fire was started under the boiler immediately after the alarm was given. In the meantime the Orono company, the Monitor, had arrived and as soon as the water started four or five streams were directed against the fire and after about an hour more of hard work the fire was at last got under control, without getting into the main part to any great extent, but the ell was completely gutted. The fire was a rather dangerous one to fight, on account of the gasoline tank near by, which, if it had exploded, would probably have wrecked the building and injured many persons. The loss

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cannot yet be estimated but will probably reach a high figure, as a large amount of apparatus was destroyed besides the loss on the building itself.

On Friday evening, Sept. 13th, the Y. M. C. A. gave a reception to the new men in the college chapel. After a short time spent in getting acquainted and in conversation, President Tolman of the Y. M. C. A. called the gathering to order and in the name of the Association welcomed the class of '99 to the Maine State College. Mr. Libby responded for the Freshmen, and in closing said that he thought he could assure the Y. M. C. A. of the hearty support of the class of '99. This was followed by a song by Miss Alice Bond of Orono, who, though not a member of the college, kindly consented to assist in entertaining, as did her accompanist, Miss Annie Douglass. Secretary Jordan of the Bangor Y. M. C. A. made a short speech, offering the use of the Y. M. C. A. building to the students. He was followed by J. R. Boardman of the class of '88, now of the Bangor Theological Seminary, who spoke of some of the changes for the better that had taken place in the college during the last few years. Prof. Jordan, representing President Harris, then welcomed the entire class, including the young ladies, to the college, and reminded them that they were not here simply to get book knowledge, though that was very essential, but to fit themselves in the best possible manner for life-work. After another solo by Miss Bond, refreshments, consisting of ice cream, cake and pears, were served. The remainder of the evening was spent in conversation and in singing college songs. A number of the faculty availed themselves of this opportunity of becoming acquainted with the new students.

As we return to college this fall several improvements are noticed: The Q. T. V. house has been freshly painted; a very pleasant office has been fitted up in the basement of Coburn for the use of the President, Treasurer and Registrar, and as a general business office; a door has been cut through from the Library and the old Physical Laboratory has been fitted up as the Library Reading Room. The greatest change is noticed upon entering Oak Hall. The two end stairways have been removed and a stairway running up from the center substituted, with landings every half flight; the corridors are ceiled in oak and the doors are also of oak, while the rooms are prettily finished in white-wood and lighted by electricity; there are dust-shutes on every floor, while an elevator for carrying trunks, etc., has been put in. Oak Hall is now a very neat and convenient dormitory and the students who live there ought to appreciate the fact and do all in their power to keep the building from being damaged in any way, and we believe they will. Improvements on the Shop have been quite extensive. A new building 30x50 ft. has been built onto the south side of the main building, in which is a boiler room, engine room, a room for the use of the Electrical Engineering students, and a room for the storage battery. Two new dynamos will supply the power for lighting all the buildings and for arc lights so placed as to illuminate the whole campus. The new Hamilton-Corliss engine, of about 40 H. P., recently set up, will supply the motive power for the dynamos, and is supplied with steam from a new Heine Safety boiler of a lately improved pattern, gauged to 80 H. P. Only first-class machinery has been used, and the whole will soon be running to perfection.



YE ALUMNI.

The following sketch of the late bears his name and which is now Alton Jhacelous Shaw, of the class of recognized as one of the greatest '79, is from the Muskegon (Mich.) inventions of the age in the line of *Daily Chronicle*: hoisting machinery.

Mr. Alton J. Shaw, president of the Shaw Electric Crane Co., died at his home on Jefferson St., Muskegon, June 22, 1895, of peritonitis. Mr. Shaw was born Jan. 20, 1858, at Buckfield, Oxford Co., Me. His natural genius for mechanics early manifested itself, and while still a boy he devoted much of his time to experiments in natural science. At the age of sixteen he entered college with the purpose of obtaining a classical education, but soon changed this by transferring to the Maine State College, from which he graduated in 1879, in the mechanical engineering course. His first three years after leaving college were spent in the employ of the Chandler Motor Co. of Lewiston, as mechanical engineer. Later he engaged in business for himself, and was for some time in the employ of the Yale and Town Manufacturing Co. of Stamford, Conn. Then he came west to Milwaukee and accepted a responsible position with the great manufacturing establishment of E. P. Allis & Co. While in this position a large traveling crane in the foundry was disabled by an accident, and to Mr. Shaw was assigned the work of designing a new crane to replace the old one. This afforded exactly the right opportunity for his inventive genius, and the result of his labors was the electric traveling crane which

Mr. Shaw's invention at once attracted the favor of mechanical engineers, and after a second crane had been built he decided to devote his energies to the crane manufacturing business. The result was the establishment of the Shaw Electric Crane Co., at Muskegon Heights. It has been a growing success from the start and the business gives promise of still greater development.

Mr. Shaw also invented new electric motors particularly adapted to cranes and hoisting machinery. The manufacture of these motors was added to the business of the company and the motors they have been making the past two years are found to be far superior to any they have been able to buy. Another of his recent inventions which has been patented and promises to be of very great value for controlling all kinds of motors used for power purposes, is an improved rheostat. This is now used in the company's cranes.

Mr. Shaw was a man of broad views and decided opinions. His active mind led him to investigate a great variety of subjects. He was one of the most courteous of men, frank and outspoken in his opinions, yet always quick to acknowledge it if convinced he had made a mistake. While still a young man, being but little over thirty-seven years of age, he had by

his inventive genius, his mechanical ability and untiring energy, won a high position and was recognized as one of the most valuable and promising business men of Western Michigan.

Ex-'75.

Frank E. Southard, formerly a leading attorney at Augusta, and Secretary of the Republican State Committee, has sold out his office at the former place and removed to Boston, to engage in the practice of law.

'82.

Major W. R. Howard has resigned his professorship at the Vermont Academy, Saxton's River, Vt., and located in Belfast, where he has charge of the business established by his father in the manufacture of patent screw drivers. Several improvements have been made in the plant and with a new reversible screw driver which is soon to be placed on the market, the prospects are favorable for the building up of a large and profitable business.

'85.

Much sympathy will be extended to Leonard G. Paine at the loss of his wife, *nee* Lane, who died at her father's home in Searsport last July. Mr. Paine is the Portland representative of a leading Maine slate company.

'86.

Heywood S. French now combines the business of the contractor with his profession of civil engineer. This summer he has been completing an important contract at Rutland, Vt. His residence is still in Newtonville, Mass.

Edwin D. Graves has been promoted to assistant engineer of the Berlin Iron Bridge Co., East Berlin, Conn. He has had charge of many of their most important pieces of work in recent years, and at present is superintending the erection of a large bridge in Middletown, Conn.

'87.

James D. Lazell has recently accepted an excellent position as assistant general manager of the Farwell Ventilated Fireproof Building Co., limited, 104 South Twelfth St., Philadelphia, Pa.

Ex-'88.

A. H. Buker, of Rockland, has just completed his second season as proprietor of the Sunny Side Cottage, a popular summer resort at Owl's Head. Mr. Buker will spend the winter in Boston, where he will engage in the grocery business.

Charles B. Gould, of C. B. Gould & Co., dry goods merchants, Caribou, was married on June 12 to Miss Annie G. Buffum, daughter of Hon. Charles Buffum of Orono. The wedding, which was a largely attended and very pretty affair, occurred at the Orono Universalist church, Rev. H. A. Philbrook officiating. George P. Gould, brother of the groom, was best man and Miss Ora Gates, of Presque Isle, bridesmaid. Alden P. Webster, '91, Nathan C. Grover, '90, Frank G. Gould, '94, and Charles N. Buffum, '96, were ushers. A reception at the home of the bride followed the ceremony at the church.

'89.

Harry F. Lincoln, for three years an efficient superintendent of the electric light plant at Leicester, Mass., has relinquished his position to take the place of assistant superintendent of the Blackstone Valley electric railroad. He will remove to Millbury in the near future.

'90.

F. O. Andrews has a good position with the Worthington pump manufacturing company in their office in New York city.

George H. Babb was chosen instructor in manual training in the Portland public schools after the resignation of W.C. Holden, '92.

Edward H. Kelley has resigned his position as editor of the *Rockland Daily Star*, and will return to Washington, D.C., this fall to resume his correspondence for the leading Maine dailies.

Hugo Clark, who is a lawyer practicing in Seattle, Wash., made a visit to the campus a few days ago.

C. A. Dillingham, ex-'90, of Old Town, has been on the campus recently.

John Bird, of Rockland, was quietly married to Miss Henrietta E. Royer at her sister's home in Philadelphia, Sept. 24. After a short wedding tour the couple have returned to Rockland, where Mr. Bird is associated with A. J. Bird & Co.

Charles T. Cushman is now engineer for the Sherman Iron Works, Brooklyn, N. Y.

A. J. Coffin has succeeded to the position of engineer with the Maloney Steel Co., North Penn Junction, Philadelphia, Pa., lately filled by J. D. Lazell, '87.

'91.

Wallace R. Farrington, editor of the *Pacific Commercial Advertiser*, of Honolulu, H. I., has recently been elected President of the corporation publishing the above daily and two weekly publications at the capital of the young republic. This latest recognition of Mr. Farrington's abilities comes to him through the resignation of W. W. Castle, who was chosen as minister to this country to succeed Minister Thurston. The publishing company is about to introduce type-setting machines.

John H. Flannagan is one of the clerks in Rockland post office.

W. H. Patten is in Salmen on a business trip.

J. F. Hersey of Patten visited the campus recently. While here he made his home with Clarence Scott of Old Town.

Ex-'91.

The many friends of Alden P. Webster, of the Webster Paper Co. of Orono, are congratulating him upon his engagement to Miss Fannie Cram of New York city.

Albert M. Miller is now clerking in one of the smaller Boston hotels.

'92.

W. C. Holden, instructor in manual training in the Portland public schools, resigned at the end of the last school year to accept a similar but more lucrative position at Lynn, Mass.

The marriage of Arthur C. Grover to Miss Susie G. Colburn of Orono, occurred Sept. 9, at the home of the bride, the ceremony being performed by Rev. P. J. Robinson, of the Orono Congregational church. The couple left soon after the happy event for their home in Malden, Mass., where Mr. Grover is engaged in the sewer extension.

F. S. Tolman was one of the many alumni visitors seen about the college this term.

E. W. Danforth, who has been visiting friends on the campus, has returned to Somerville, where he has a position in the City Engineer's office.

'93.

G. F. Rowe was on the campus recently.

Harry M. Smith was married to Miss Sallie Moor at the home of the bride in Bangor, June 6. After a short wedding trip the couple took up their residence at Caribou, where Mr. Smith is engaged in business as one of the members of the Jerrard Seed Company.

Hiram Williams, of Portland, has been elected Grand Marshal by the class of '96, medical department, University of New York. Mr. Williams has received

two diplomas for meritorious special work in the Medical School Department.

'94.

The marriage of Augustus D. Hayes to Miss Elnora Sholes occurred at the home of the bride in Belfast, September 10, and the young couple are at home after October 1. Mr. Hayes has been in charge of the engineering of sewer extension at Belfast during the past summer.

Instructor Halbert G. Robinson of the department of mathematics of the college, is being congratulated upon his engagement to Miss June Burr of Bangor, a student at the University of Michigan, Ann Arbor, which was announced recently.

G. W. Rumball '94, and John Ricker, ex-'94, have entered into partnership and have purchased the works of the Eyelet Tool Co. at 45 Lincoln St., Boston, Mass.

W. H. Jose was on the campus recently for a visit. He is traveling for the Diamond Glue Co. of Boston.

G. H. Hall was one of our recent visitors.

Among other '94 men who have been on the campus are F. C. Bowler, J. M. Kimball and Geo. P. Cowan. Cowan is a teacher at the Good Will Farm at Fairfield and is very much attached to his work.

'95.

Several of the class of '95 have been here this fall, among whom are M. F. Rollins, L. R. Folsom, H. S. Boardman and A. H. Buck.

Most of the '95 graduates stepped at once into position. Frank Damon, H. G. Robinson, O. W. Knight and W. W. Chase are endeavoring to carry the dignity that becomes members of the faculty. L. R. Folsom is instructing in Hampden Academy. I. G. Calderwood, C. A. Frost and J. W. Martin have situations in Malden, Mass., surveying on the work of sewer extension. A. H. Buck has been assisting in the electrical work about the college during the summer.

Ex-'96.

Frank Holmes has a position on the B. & A. railroad.

Mark L. Urann of Foxcroft made a flying visit to friends here in September.





THE PEANUT GAME.

SOPHOMORES 11, FRESHMEN 10.

The Freshman-Sophomore ball game was the best ever seen here and as usual resulted in a victory for the Sophomores. The result was in doubt during the last few innings and until the end of the ninth looked like a ten inning game. The fielding was very good for a class game but the batting was weak.

It is hard to say who of the freshmen team are fast enough for varsity material. Palmer's catching was good and will put him among the prominent candidates for the team. Crockett played right field but has the reputation of being a good pitcher. Small played a good game on first and Libby covered second in a very acceptable manner. Pretto played a very brilliant game on third, but he is rather light for a college team.

The scrapping was lively, although the Sophomores were evidently superior to their opponents. The teams played as follows: Sophomores—Crowell c., Welch p., Small 1st b., Dolley 2d b., Higgins 3d b., Emery s. s., Brann l. f., Marks c. f., Gibbs r. f. Freshmen—Palmer c., McPheters p., Small 1st b., Libby 2d b., Pretto 3d b., Scott s. s., Bradford l. f., Curtis c. f., Crockett r. f.

FOOT BALL.

At the first meeting of the Athletic Association an assessment of \$4.00 was made for the support of foot ball. The motion passed without the slightest opposition, but later many complaints were made that it was too much. Many have asked what is to be done with it all. No one ever heard of a surplus in the association treasury, and even if

such an unusual thing should happen, it can be put to a good use next spring.

The usual custom is to call an assessment of \$3.00 at the beginning of the term and another one near the end, when it is almost impossible to collect it. Another good move was to charge admission to the games to all who do not pay their assessments with a reasonable degree of alacrity. It is hoped that this will induce many to pay up, but if it does not, the association will at least be richer by the price of admission.

MAINE STATE 22, FOXCROFT ACADEMY 0.

The first game of foot ball was played with the Academy team at Foxcroft, Sept. 21st. The team was not the heavy team the Freshmen played last year, but a lighter one composed of Academy boys. The extreme heat prevented any very aggressive playing and in the second half only one touchdown was made.

The work of the backs was good and Pearce's work on left end deserves special mention. For Foxcroft, Hook played a good game and Brawn and Rogers did good work in the line.

The line up of the two teams was as follows:

MAINE STATE.		FOXCROFT.	
Pearce	l. e.		Dyer
Noyes	l. t.		Crossman
Lawrence	l. g.		Betts
Sturgis	c.		Rogers
Merrill	r. g.		Warren
Weymouth	r. t.	Brawn (Capt.)	
Sawyer	r. c.		Peaks
Seavey (Capt.)	q. b.	St. Germain	
Armstrong	}		
Jack		l. h.	Howard
Crockett	f. b.		Hook
Ellis	r. h.		Webber

BANGOR

The merits the ren They, p took t the line touchd Otherw work o Maine on dow until it called Bangor

The MAINE S Pearce Noyes Lawren Sturgis

Merrill Weymo Sawyer Webber Seavey Jack Ellis Crockett

The was pla The gar sided. hold the men. stituted through forced Armstro touchdo Two of the fact close to yer and

BANGOR HIGH SCHOOL 14, MAINE STATE 0. ends and Seavey played a plucky game

The game was lost not through the at quarter. The line up:

COLBY.		MAINE STATE.	
Shannon	l. e.	Sawyer	
Putnam	l. t.	Noyes	
Brooks	l. g.	Merrill	
Hamilton	c.	Sturgis	
Thompson	r. g.	Lawrence	
Chapman	r. t.	Libby	
Pike	r. e.	Pearce	
Lamb	q. b.	Seavey	
Patterson	l. h.	{ Jack	
		{ Ellis	
Alden	r. h.	Armstrong	
Holmes	f. b.	Crockett	

The line up:

MAINE STATE.		BANGOR.	
Pearce	r. e.	Crowley	
Noyes	r. t.	Leeman	
Lawrence	r. g.	York	
Sturgis	c.	Hunt	
Merrill	l. g.	{ Fairbanks	
		{ Hickson	
Weymouth	l. t.	C. Connors	
Sawyer	l. e.	{ Durgin	
		{ Cutter	
Webber } Seavey }	q. b.	McCann	
Jack	r. h.	Hal Hunt	
Ellis	l. h.	{ Hickson	
		{ Fairbanks	
Crockett	f. b.	Connors	

COLBY 16, MAINE STATE 6.

The first college game of the season was played on the home grounds Oct. 12. The game was interesting, although one-sided. The light home team could not hold the heavy rushes of the beefy Colby men. In the second half Ellis was substituted for Jack and by repeated rushes through Colby's tackles, the ball was forced nearly to Colby's goal line and Armstrong was pushed across for a touchdown. Crockett kicked the goal. Two of Colby's touchdowns were due to the fact that our full back played too close to the line on the defensive. Sawyer and Pearce did good work on the

Umpire, Palmer of Bangor. Referee, Clark of Colby. Linesman, White of Maine State. Time, two 20-minute halves.

COLBY 56; MAINE STATE 0.

The game at Waterville, Oct. 19, was a complete walk-over for Colby. Our team started the game very well and for a few minutes played good foot ball. They forced Colby back to her thirty-yard line and then lost the ball on downs. After this the ball was in Colby's possession nearly all the time. The Maine State team went to pieces and played a remarkably poor game, the only redeeming feature being the work of Pearce on end. The line up:

COLBY.		MAINE STATE.	
Shannon	l. e.	{ Johnson	
		{ Jack	
Putnam	l. t.	Libby	
Brooks	l. g.	Bryer	
Hamilton	c.	Noyes	
Thompson	r. g.	Lawrence	
Chapman	r. t.	Sturgis	
Pike	r. e.	Pearce	
Watkins	q. b.	Seavey	
Patterson	l. h.	Ellis	
Alden	r. h.	Armstrong	
Holmes	f. b.	Sawyer	

Umpire, Palmer of Bangor. Referee, Alden of Waterville. Linesman, Clark of Colby. Time, two 25-minute halves.

BATES 20 ; MAINE STATE 0.

The home team was defeated by Bates on the college grounds Saturday, Oct. 26, by a score of 20 to 0. The visiting team was much superior in weight and made most of their gains through the line. The sickness of Merrill and Weymouth's lame knee weakened the left side of the line somewhat, but their places were well filled by Bryer and Libby. The playing was sharp and abounded in many brilliant plays. The features of the game were the hard tackling of the Maine State team, Libby, Sawyer and Johnson especially distinguishing themselves.

The line up :

BATES.

Burrill	l. e.
Cutts	l. t.
Bruce	l. g.
Saunders	c.
O. E. Hanscom	r. g.
E. J. Hanscom	r. t.
Wright	r. e.
Douglass	q. b.
Nason	l. h.
Pulsifer	r. h.
Hinckley	f. b.

MAINE STATE.

Pearce
Sturgis
Lawrence
Noyes
Bryer
Libby
Johnson
Seavey
Ellis
{ Armstrong
{ Jack
Sawyer

Umpire, Slattery of Bates. Referee, White of Maine State. Linesman, Crockett of Maine State. Time, two 25-minute halves.



Cornell has a student's tribunal, the object of which is to stop frauds practiced in examinations.

The receipts of the college paper in Stanford are nearly fifty per cent. more than the cost.

Northwestern University has oral examinations.

The University of Pennsylvania gives degrees to women, the Universities of Alabama and Tennessee admit them, and the University of Michigan has even enrolled Chinese women.

Eton college has been founded four hundred and fifty-three years.

All the leading colleges are now giving credit for work on college papers.

The regents of the University of Michigan make no distinction between men and women as candidates for positions as professors or instructors.

There are about 80,000 members of college Greek letter fraternities.

The students in Wesleyan have a voice in college government.

In Ohio, hazing is a crime punishable by fines, imprisonment and branding with nitrate of silver.

"Artemus Ward" was a student in the Norway (Me.) Academy.

The University of Chicago has a telescope seventy-five feet long, weighing six tons and having an objective of forty inches.

Arithmetic is no longer one of the requirements of admission to Yale.

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CALENDAR.

Nov. 22, Friday—Senior Prize Debate.
 26, Tuesday—Meeting of the Board of Trustees.
 28, Thursday, } Thanksgiving Recess.
 Dec. 1, Sunday, }
 6, Friday—Sophomore Prize Declamations.
 14, Tuesday—Term Examinations begin.
 19, Thursday—Term ends.

SPRING TERM.

Feb. 3, Monday—Before Term Examinations begin.
 4, Tuesday—Entrance Examinations begin.
 5, Wednesday—Spring Term begins.

TO THE ALUMNI!

The ad. which has occupied this space has been a source of much profit to the advertiser. How? By the fact that nearly all the former students of M. S. C. have sent ten cents and received the SOUVENIR ALBUM of Old Town and Orono, containing views of all the college buildings and campus. 56 views for only a dime. Address

OLD TOWN ENTERPRISE,
 Old Town, Me.

GLOBE
STEAM LAUNDRY,
 26 to 32 Temple St.,
PORTLAND, - MAINE.

Students' Washing a Specialty.
A. F. WARNER, Agent,
 Maine State College.

OFFICIAL ANNOUNCEMENT of the award on
GILLOTT'S PENS at the CHICAGO EXPOSITION.
 AWARD: "For excellence of steel used in their manufacture, it being fine-grained and elastic; superior workmanship, especially shown by the careful grinding which leaves the pens free from defects. The tempering is excellent and the action of the finished pens perfect."
 (Signed) FRANZ VOGT, Individual Judge.
 Approved: H. I. KIMBALL, Pres't Departmental Committee.
 JOHN BOYD THACHER, Chairman Exec. Com. on Awards.

A FOOT BALL GAME
 is no less attractive than our line of
Smokers' Articles, Confectionery
Groceries, Crockery Etc.,
 —AT—
B. P. GILMAN'S,
ORONO, - - - MAINE.

Rensselaer
Polytechnic
Institute,
Troy, N.Y.
 ESTABLISHED 1824
 A SCHOOL OF ENGINEERING
 Local examinations provided for. Send for a Catalogue.

Extracting Made Easy.
Dr. E. L. Richardson,
Dentist,
All Work Warranted.
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LATEST STYLES. BEST WORK.
CLASS WORK AT LOW RATES.
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 3 Main Street, Orono.

HEATH,
The Leading Photographer,
BANGOR AND ORONO.
 Portraits by Electric Light a Specialty.
 Sittings from 6 to 8 P. M.

COLLEGE MAGAZINE REVIEW.

In the commencement numbers of the different college magazines, of which the majority contain either the commencement parts in full or abstracts of them, there is an abundance of very interesting articles. This is equally true of the other numbers of these magazines and it is to be regretted that so few of the students have a thorough acquaintance with the publications of other colleges, for while they may know the names and covers, and look in the locals and reports of college sports for mention of their friends, it rarely occurs to them to read any of the leading articles, and so they miss the cream of the paper.

* * * * *

The Pacific Wave, published by the University of Washington, contains, in the September number, an interesting article on Shakespeare and also an historical sketch of the University and an article on "Amateur Journalism" which will abundantly repay the reading.

* * * * *

The September number of the *Speculum* contains a prize oration entitled "American Citizenship," which was delivered in an inter-society contest, and deserves high praise for the true and loyal sentiment which it expresses, as

well as for the excellence of composition. There is also a very readable article on "The Typical Sophomore" in the same number.

* * * * *

In the September number of the *Foxcroft Academy Review*, the first number of Vol. 2, there is a very noticeable and commendable change in the shape and size and also in the arrangement of matter.

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The Washburn Mid-Continent follows the shining example of the various magazines of the past year and comes out in the September number with an article on "The Real Napoleon." Nothing said about "Trilby," however.

* * * * *

The University of California's weekly publication, *The Occident*, for Sept. 19, contains a very instructive article on the "Study of Philosophy," by their Professor of Philosophy. He endeavors to put on brief record, as he says, a few of the views that as a teacher of philosophy he has formed "concerning the place of philosophical studies in a liberal education and concerning the value of such studies for the individual student."



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THE CADET.

NEW SERIES.

VOLUME X.

DECEMBER, 1895.

No. 6.

LAW-BREAKING NOT NECESSARILY CRIMINAL.

H. S. Martin, '96.

AS far back as we have a record of the existence of the human race, we find men bound together to a greater or less extent by laws suitable to the times in which they lived ; nevertheless outbreaks have been frequent whenever the power has gotten into the hands of a tyrant.

When the Roman Republic was at the highest pinnacle of its success, the patricians were in almost absolute control, and the plebians were being made slaves for debt, do we call it a crime that they revolted, refused to pay, broke their bondage and left the city? Yet it was contrary to law. They gained their rights for a while and we admire their courage in so doing. Under the Gracchi they again revolted and brought on war, but we do not call them criminals. No! Every American citizen has too much love of freedom to blame any one who sacrifices everything to obtain it.

Laws are in the abstract the mutual agreement of the people for the mutual benefit of the people, and the breaking of them is a crime in so much as it injures the people. But under the cloak of the law it has been possible to work great injustice because it was done according to the statutes.

Some may ask, should every man be a law unto himself? I say yes, if it comes to that ; better every man a law unto himself, than one man or a group of men a law unto themselves and everybody else.

When the time comes that the power is in the hands of those who will use it for the oppression of the common people, then the time is ripe for revolt and revolution.

We are apt to classify a crime by the number concerned in it ; for instance, if a whole country rises in unison it is a revolution and a glorious blow for liberty ; but if one man

or a few rise, it is a dastardly crime and no punishment too severe.

When the Roman Republic was at the highest pinnacle of its success, the patricians were in almost absolute control, and the plebians were being made slaves for debt, do we call it a crime that they revolted, refused to pay, broke their bondage and left the city? Yet it was contrary to law. They gained their rights for a while and we admire their courage in so doing. Under the Gracchi they again revolted and brought on war, but we do not call them criminals. No! Every American citizen has too much love of freedom to blame any one who sacrifices everything to obtain it.

The corn law in Great Britain, which kept up the price of corn and wheat, was repeatedly broken because it was contrary to all the laws of God and humanity. In the early forties it caused a famine in Ireland when the potato crop failed, and was shortly after repealed. Would any one say that this law should be respected because it was a law? That all Ireland should starve to support the majesty of an unjust law? That an Irishman should refuse to eat corn that had been smuggled, because it was against the law? Had better starve?

It was a right and even duty to say with Dave Barker, when the break this law or any other that is against the principles of humanity and in direct collusion with the devil. Negro Burns was sent back from Massachusetts:

We look back to the days of 1776 with pride, especially if we can point to one of our forefathers as a soldier in Washington's army, and I have no doubt but what every citizen of New England would be glad to trace his ancestry to one of those criminals who took part in the Boston tea party. And they were criminals against his gracious majesty King George, and glorious criminals, too.

But whether the law be made by King George and his Parliament or the President and the Congress of the United States, an unjust law is not entitled to respect.

Let us go back to the ante-bellum days when the South compelled the North to be her blood hounds; to send back any escaped slave that they should find. Think of it! That we should take a poor negro, half naked and half starved, who had got as far North as here, through swamps and forests, over mountain and stream, tracked by hounds and with the mark of the slave whip still on his shoulders, and relentlessly send him back to bondage!

Would any one of us have said to him, "You are a criminal, you have no right to your freedom; although I do not believe in slavery, I must send you back to what I know to be almost certain death, to uphold that law which says you are but a chattel?" No; you would say, "The law commands me to deliver you up to the officers, but I had rather appear before my Maker with the crime on my shoulders of having set you free than to have sent any one back to slavery." I believe every one would

We have no Boston down in Maine,
No Massachusetts Bay,
No Plymouth Rock to tell the world
Where once the Mayflower lay;
No Garrisons, no Phillippes,
No poets, martyrs, sages,
No mighty men to light a torch
To lighten future ages;
And yet, with all our ignorance,
We've often thought of late,
*That Burns could never have been dragged
From out the Pine Tree State."*

Now let us come still nearer home, the Pullman strike. The Pullman Company owns the town of Pullman and rents to the workmen, and when hard times came the wages went down but not the rents; and at last there was only a fraction of a dollar left from their wages after paying their rent. Finally they struck! According to the law they have a right to leave their work but not to prevent any one else from accepting it.

The law allows the corporations to cut wages with limit. It allows lock-outs all over the country. It allows corners in wheat until starvation stares many families in the face and thousands of families are made destitute. Justice (for Justice is exceedingly blind towards the corporations) knows naught of this.

Can you talk to a man about law-breaking and that he has no right to prevent other workmen from taking his place, when his family is impoverished, his children improperly clothed and he knows not from where his next meal is coming?

Here again is the power in the hands of a few, and unless the law limits the corporations more instead of protecting them in their nefarious practices, there will be an internal

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rebellion that will convulse the whole world. What class have been the main stay of this government from its birth? What principle was implanted in its very foundations?

The corporation says, "If you do not like our wages you can go elsewhere." The government says, "If you do not like a corporation's monopolies, for the wages you can leave." For whom

would you say this law was made, the corporations or the people? I say that dark days are coming and the breaking of such law is no crime as long as a government which was organized of the people, for the people, and by the people, shows such a tendency to become of the monopolies and



THE MAINE STATE COLLEGE ELECTRIC LIGHTING PLANT.

IN the selection of a lighting system it is necessary to consider carefully the conditions which must be met both in the generation of electrical energy and in the distribution of light.

The two great sources of energy which may be used in electric lighting are steam and water power. Where steam power alone is to be depended upon, the question arises whether it is better to use direct-connected machines or to belt from the engine to one or more dynamos or to belt from the engine first to a jack-shaft and then from the jack-shaft to as many dynamos as may be desired.

In the selection of dynamos it becomes necessary to choose between the direct current and the alternating current systems. If the direct current is used for incandescent lighting over an extensive area, large copper conductors must be used in order to furnish good regulation. If the alternate current system is used, the energy may be satisfactorily transmitted over a considerable distance at a high pressure (or voltage) with comparatively small wires. The high voltage may then be transformed down by means of an alternate current trans-

former to a voltage suitable for incandescent lighting. There is an advantage in favor of the alternate current system, for the direct current cannot readily be transformed from one voltage to another. The alternate current and direct current are equally good for incandescent lighting, but for arc lighting and power purposes, the direct current is slightly superior. Another advantage in favor of the direct current system is, that it permits the use of a storage battery.

In order that a storage battery might be used during the latter half of the night for an average of perhaps a half dozen incandescent lamps, the low pressure direct current system was decided upon for the Maine State College electric lighting plant. The jack-shaft system was adopted because it is desirable to furnish power to the shops from the same engine that is running the electrical machinery.

The steam plant consists of an 85 horse-power Heine water tube boiler, which supplies steam to a new Hamilton Corliss engine. The engine is capable of delivering 60 horse-power at 90 revolutions per minute, when supplied with steam at a pressure of 100 lbs. and cutting off at one-quarter

stroke. The engine running at 90 about two volts for five hours. Fifty-revolutions per minute is belted to a six of these cells are used at present. jack-shaft which makes 300 revolutions per minute. From this jack-shaft belts run to two dynamos and a pressure considerably above 110 volts when fully charged. The capacity of the battery is by no means sufficient for running at one time all of the lights which are now connected to the various circuits.

The arc light in front of Oak Hall is connected in series with the one in front of the Chemical Laboratory. The other two are likewise connected in series and the two pairs of lamps are then connected in multiple with each other and in multiple with the incandescent lamps. The fire-proof switch-board is so arranged that either one of the dynamos or the storage batteries may be connected up to any or all of the following four circuits:

1st, Coburn Hall, the President's house and the Kappa Sigma house.
2d, The arc lights.
3d, Wingate Hall, Oak Hall, boarding house and Beta Theta Pi House.
4th, Chemical Laboratory.

It is also arranged so that one of the dynamos may be charging the storage battery while the other is running the lights.

The storage battery consists of 58 cells, each of which is capable of furnishing, when fully charged, a current of 60 amperes at a pressure of



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C. P. W.
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EDITORIALS.

THE CADET.

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A. H. TAYLOR, '98, Assistant Manager.

It is a fact much to be lamented that there are so many students in college who are not subscribers to their college paper, and especially is the above state of affairs to be regretted at the present time, for the reason that the co-operation of every one is needed to place THE CADET once more on its feet. The college paper should be representative of the students, but it cannot perform its function properly without the support of all. We are inclined to believe that it is not wholly the fault of those whose names are not on the list, that they are not subscribers, as it may have been that they have been missed by the solicitor, and thus have neglected to subscribe. You must remember that it is now exceedingly difficult for the business manager to reach all the students, as they are scattered so far from the campus, and that it is a great deal easier for you to see him than he you. So, please come up and deposit the small fee necessary to make you become a subscriber and thus help the management over the crisis.

* * *

ONE of the marked features of the Sophomores' exhibition was the entire absence of any prompting to freshen

the memory of the speakers; and this is as it should be. It would seem from the standpoint of an outsider that the work of committing a piece to memory would be subordinate to the rendering, but how often has it been shown that the reverse is true. Not only do we wish to refer to the excellency in this particular, but to the general merit of the participants, who showed by their manner of delivery that the time spent in preparation was not at all wasted. By many, the exhibition was considered to be one of the best yet held, and if it is, as it would seem, the custom for all such exercises to excel those which are past, why, we all shall have to be getting ready to believe that our President's scheme of chapel declamations is beginning to tell its own story.

* * *

ALTHOUGH the expenses for athletics have been comparatively small during the past term, the athletic association has been unable to clear off the old debt entirely, and so as usual, next spring there will be the customary edict sent out from the faculty, with the substance of which we are becoming very familiar, *i. e.*, no athletics with clamoring creditors. If history repeats itself, strenuous efforts will then be made to collect enough money to nearly square the old debt, in order that our ball players may chase the sphere in foreign climes in search of more championship "rags," that our tennis squad can win more silver ware, and our athletes limber up for more intercollegiate honors. After this pressure is relieved by the

faculty the collectors will relapse into a partially comatose state, and with few exceptions they will not arouse themselves from this lethargic condition for the remainder of the term.

At the end of the term there will be the ghost of the old debt which will haunt the association at the beginning of the next foot ball season, and thus the wheels revolve. The almost certainty of the above prediction becoming true will be vouched for by all upper classmen; but how can this evil be averted?

* * *

THE great source of error in the past has been in overestimating the amount of available cash to be raised on the assessments and thus running in debt to the extent of this uncollectable part. Experience tells us that out of the whole amount assessed by the association, only from one-half to two-thirds can be collected, and future managers should work on this assumption. A good per cent. of the students make it a point to see that their athletic dues are always paid, while there is also an element that always avoid paying if possible, and others who will not pay anyway. With this state of affairs existing, it is not surprising that a great deal of dissatisfaction is felt by those who are always able to show receipts from the athletic association. A student should deem it just as much his duty to see that his athletic dues are paid as any of his term expenses, and for that reason we advocate the placing of the athletic dues on the term bills, that the expense may be borne equally. This, of course, cannot be done without the consent of the college authorities, but it seems the best method of solving the problem. If this could be effected the assessment per capita could be reduced almost

one-half, and the uncertainty in respect to the resources available to the managers of the several athletic teams, would cease to exist.

* * *

WHY wouldn't it be a good idea for the chapters of the several fraternities located here, to see that the magazines published by their respective fraternities be placed on file in the college library? This is the custom that prevails at a number of colleges and it seems to us a good one. The scope of the fraternity magazine has been extended in a marked degree during the past few years, until now it contains matter which is of interest to all. The magazines would undoubtedly at times furnish spicy reading for the fraternity men in college, and perhaps the non-fraternity men would enjoy perusing their pages from a neutral point of view.

* * *

THE honor of wearing one of the college sweaters, which should be the sole privilege of 'varsity men who have earned the right to wear the same by good hard work to make one of the teams, is becoming less and less, as the indiscriminate wearing of them by everybody becomes more and more common. A great many "faked" athletes are now found posing before the unsuspecting public with college sweaters on, when it would be more appropriate for the same persons to wear a placard stating that they were Freshmen. Anybody who can raise a few dollars can invest in a blue and white M. S. C. sweater and in this way reflect his borrowed glory. While the displaying of college colors is to be encouraged, we think the privilege of wearing the sweater with the big M, or M. S. C. on the front, is distinctly the right of those who have proven their superiority in athletic circles.

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THE SENTINEL.



The Sentinel, (together with many those fellows who have a penchant for others presumably), took up work again gunning. (Note—a grain of salt goes at the close of the Thanksgiving recess with this).

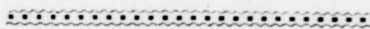
with quite a deal of diffidence, and there was very forcibly brought home to him at this time the fact that the more time there is for the preparation of a lesson the less chance there is that it will be decently prepared. Some of the Profs., not having forgotten their own student days, remember this fact and do not expect much on these "days of new beginnings," so their disappointment is slight and easily borne. Then again there are others whose disappointment is grievous—but let's say no more about that, it's an unpleasant thought (to the student.)

"The Maine State college is pleasantly situated, etc.," (for remainder of location see page 106 in the annual catalogue), but aside from this it has one advantage of position which you hardly ever see mentioned, that is, it's nearness to the "hunting ground" of the North. Almost any day—if it isn't "close time," a student can shoulder his gun, (and, by the way, rifles are furnished by the military department, and ammunition, too, if you only know how to "draw" it), start off toward Pushaw, and if he has any kind of luck, or belongs to Jeffrey's gun club, he will have shot a deer before noon. Then if he continues to wander, it is more than probable that he will have added *bear* to his game list before it is time to go home, no mention being made of small game, such as partridges, the turkeys (cultivated ones), etc., etc. This fact, if properly advertised, ought to serve as a telling inducement with

The Bangor, Orono and Oldtown Electric Road, which was somewhat of a "deal in futures" last commencement, had materialized in great shape before the beginning of this term, and for a few days kept the fellows "guessing" each time they took a trip, as to how soon the conductor would be around for another installment of the fares. But they have conquered the "five cent fares please" and the "six cent fares please" problem, so that doesn't trouble them any more. Then aside from its normal function, the road serves another purpose—it provides an easy means for earning money; for if there is any truth in the old saying, "a penny saved is a penny earned," then by direct analogy, "a fare 'jumped' is a nickel earned." Q E. D.

If any stranger passing through our campus after dark should hear fearful moans coming from a darkened building, he needn't be alarmed. It isn't a case of haunted house nor yet a wholesale murder, oh no; the explanation is much simpler than that—a fuse has burned out over in the power house, and the poor pluggers (?) are vociferating their disappointment at being obliged to waste several valuable minutes, that's all. For we have an electric light plant (which is described in another article), and have a system of arc lights on the campus which are run strictly on "moon time," so that now "the arc lights of Orono" are no longer a pleasing fancy

of the department of Physics but a current is turned off, in order to give realized fact. The lights in the dormitory are only run up to about eleven o'clock, so "Janey"—as a special accommodation to the boys—"winks" the lights about five minutes before the them.



LOCAL NOTES.

Master, Master! News, old news, and such news as you never heard of.
—The Taming of the Shrew,—Act III, Sc. 2.

"You can't improve on the book."

Page, '96, is teaching at Hampden.

Mrs. Balentine has been quite sick.

Weymouth, '96, is teaching at Medford.

A. D. T. Libby, '98, is teaching at Rockport.

Hobbs, '96, is at home for the remainder of the term.

Professors Jordan and Gowell recently delivered addresses at Norway.

Boynton, '99, has left college for the remainder of the term. He will teach.

Frank L. Marston spent the Thanksgiving recess in Boston and New York.

The Senior Civils have finished hydraulics and are taking up mechanics of materials.

Dr. Harris has been made Fellow of the American Association of Advanced Science.

A new fire escape has been purchased for Oak Hall and will be put in position at once.

A new discovery in chemistry.

Mr. W.—How many bonds has zinc?

Ans.—Sixty-five.

Mr. Buffum is to have a paper on the Maine State College at the meeting of the State Grange.

Capt. Edgerly gave a "smoke talk" at the Tarrantine Club, Bangor, Saturday evening, Nov. 30th.

Many of the students left Wednesday, Nov. 27th, to spend the Thanksgiving recess at home or with friends.

The Seniors have been making a plane table survey of the campus under the direction of Mr. Cummings.

Prof. Estabrooke is President of the Pedagogical Society and is preparing a fine program for the meeting this month.

Mrs. Edgerly has joined her husband at Bangor, where they have taken rooms for the winter at the Bangor House.

The Seniors went out to Pushaw pond the middle of November, on their annual hunting (?) expedition, accompanied by Prof. Hamlin and Mr. Cummings.

The Junior Civils have finished Railroad Engineering and have taken up Highway Engineering by means of lectures by Mr. Cummings.

Military recitations began Monday, Nov. 18th. The Seniors have the Art and Science of War; the Juniors, Drill Regulations; and the Sophomores, Manual of Guard Duty.

It is reported that the first recitation of the Juniors in Drill Regulations was an unusually quiet and orderly (?) one. Major Marston acted as instructor in the absence of Capt. Edgerly.

Two neat waiting rooms have been erected by the electric road, one at each entrance to the campus. They will be greatly appreciated by those who have occasion to wait for the car this cold weather.

At a recent meeting of the Junior class it was decided to hold the Junior Hop near the beginning of next term. The following committee of arrangements was chosen: S. S. Bunker, E. C. Upton, and S. J. Heath.

It doesn't seem as though we would have any one among us who would deliberately take anything belonging to another, but after at least three valuable books have been taken from the stairs in Wingate Hall and have never been returned, it would seem as if there was some one who had come very near breaking one of the Ten Commandments—the seventh, if we are not mistaken.

The semi-annual school for the officers of the Second Regiment, Maine National Guard, opened Tuesday, Nov. 19, in the City Hall building. Col. George A. Philbrook, commanding the regiment, had the general supervision of the school, which, how-

ever, was instructed in technical points by Capt. Edgerly. The commissioned officers of the battalion received invitations to attend the exercises. Many of them attended.

Complaint has been made of the magazines being taken from the library reading room almost as soon as they are placed on the shelves. Students should remember that the magazines are placed in the library for the use of all, and not for the benefit of any particular one; and that no one is of so much importance but that he should have a proper regard for the rights of others.

The new Kappa Sigma chapter house is fast nearing completion. The plans of the building were drawn by Architect Mansur, of Bangor. It is a three story building, with parlor, large hall, dining room, kitchen, pantry and servants' room on the first floor. On the second floor are a sitting room and seven study rooms. The third floor has eight study rooms, bathroom, closets, etc. The parlor and sitting room have open fireplaces. All the rooms are well lighted. Those on the first floor are heated by hot air, the second and third floors by hot water. The house is wired for electric lighting. It is expected that the building will be completed and ready for occupancy by the beginning of next term.

The following is an extract from a letter written by Lieut. Hersey to Dr. Harris, which may prove interesting to some of our readers who remember Lieut. Hersey's efforts to obtain a gymnasium here: "We are pleased at the showing M. S. C. is making. *Cela va sans dire.* M. S. C. did me a good turn in sending me to Harvard. Since com-

ing here. I have improvised a gymnasium. I found a chalk formation near that makes an excellent floor. The Commanding Officer let me have forty men and six mule teams daily, gave me *carte blanche* on the quartermaster, as a result we have quite a gymnasium; travelling and flying rigs, horizontal bars, verticals and parallels, climbing ropes and ladders, bowling alleys, lockers, in fact a pretty good all-round equipment, and what would delight your heart, it has cost me thus far fifty cents. We ran a variety show Thanksgiving Day, tumbling, wrestling, boxing, wand exercises, etc., that woke up the garrison."

The different fraternities have taken new men as follows: Q. T. V. Charles E. Blackwell, Madison; Irving H. Drew, Bar Harbor; Arthur H. Fortier, Oldtown; Gardner H. Miller, Rockland; Herman F. Noyes, Freeport; Maurice H. Powell, Orono;

and Charles S. Whittier, Skowhegan. Beta Theta Pi, Charles J. Sawyer, '97, Bangor; Walter S. Higgins, Bangor; [Edward E. Palmer, South Bridgton; Edwin S. Levensaler, Thomaston;] Cyrenius W. Crockett, Rockland; and William B. Morell, Amherst, Mass. Kappa Sigma, Fred Armes, Gardiner; Rufus H. Carleton, Cedar Grove; Edward R. Mansfield, Orono; and Freeman A. Smith, Thorndike, Mass. Alpha Tau Omega, James A. Bird, Presque Isle; Philip C. Jack, Gardiner; Frank A. Libby, Portland; Herman H. Oswald, Philadelphia, Pa.; and Henry J. Pretto Orono. Omicron Upsilon Eta Pi, Llewellyn N. Edwards, '98, Otisfield; Archer L. Grover, Bethel; Hall F. Hoxie, Waterville; Harold W. Merrill, Freeport; William Nelson, Cumberland; John L. Pierce, Machias; Frederick A. Shaw, Cumberland; Guy H. Soule, Freeport; Oliver O. Stover, Freeport; and Fred L. Varney, East Lowell.

THE SOPHOMORE PRIZE DECLAMATIONS.

The annual competition for the Prentiss Declamation Prize, the gift of Mrs. Henry E. Prentiss of Bangor, for excellence in elocution, was held in Town Hall, Friday evening, December 6. The exhibition was an excellent one in all respects, and the speakers well deserved the applause which the large audience present freely gave. Pullen's orchestra of Bangor, furnished music. The following was the programme :

MUSIC.
Off Scarborough, Bret Harte
GEORGE ARTHUR WHITEMORE,
Farmington, Mass.
A Christmas Story, Elliott
CHARLES STANLEY WEBSTER, Portland.

MUSIC.

How He Saved St. Michaels,
ARTHUR HORACE TAYLOR, Machias.

John Burns of Gettysburg,
HORACE LORING WHITE, Portland.

Vashti, Anonymous

GRACE LILIAN FERNANDEZ, Sangerville.

MUSIC.

Macer Preaching on the Steps of the Capitol
at Rome, Wan

CHARLES ABRAM PEARCE, Fort Fairfield.

Scene from Last Days of Pompeii, Lytton

EDWIN ERNEST NOWLAN, Lowell, Mass.

The awarding committee consisted of
Prof. H. K. White, and Miss Mary S.
Snow of Bangor, and Henry B. Smith
of Oldtown.

MAINE STATE'S PRACTICAL INSTRUCTION.

As will be seen by the two following experiments, etc., was obtained. Visits accounts of the Seniors' trips taken for purpose of obtaining knowledge of the practical side of their instruction, the methods taught at Maine State are modern and very much up to date, and in voice with the larger technical institutions of the same character as our own, who pride themselves on being up with the times. The courses of study offered here become more and more practical, the farther one goes, until in the Senior year a great deal of the work done is on that which bears directly on the branch pursued. The visit of the Senior Mechanicals and Electricals to the Mechanics Fair in Boston, and the Civil Engineers to Pushaw Lake are examples of the right kind of instruction.

AT THE MECHANICS FAIR.

The trip to Boston taken by the Senior Mechanicals and Electricals during the second and third weeks of October, for the purpose of attending the Mechanics Fair, then in progress, was one of interest and profit to all. Prof. Flint accompanied the party, organizing a regular system of visits to places of interest, and explaining the various forms of mechanical devices studied. Of the time spent in looking over the exhibits, special attention was paid to the machinery employed in furnishing power for the general use in the building, the dynamos and other electrical apparatus furnishing topics for much discussion. Exhibits from the different technical institutions in and around the city were objects of both commendation and criticism. Some time was spent in making the tour of the electrical and mechanical laboratories and shops of the Institute of Technology where, thanks to the courtesy of the attendants in charge, a very good idea of the methods of conducting

experiments, etc., was obtained. Visits were made to the store rooms of Hill, Clark & Co.'s manufacturing establishment of light machinery and tools, to the Charlestown navy yard and other manufacturing and building plants.

The benefits derived from such a study of the mechanical principles applied to their practical uses, of the modern improvements in machinery, and of the most approved methods of applying theory to practice, cannot be overestimated, and every one of the party considered himself well repaid for the time and expense of the trip.

AT PUSHAW LAKE.

The annual trip of the Senior Civils to Pushaw Lake for the purpose of making a practical application of some of the theoretical knowledge of hydraulics which they may have acquired, was taken as usual this fall under the supervision of Prof. Hamlin and Mr. Cummings. The use of the camp owned by members of the faculty was very kindly tendered to the party, and the three days' visit was made an enjoyable one, as well as one of instruction. The afternoon of the first day was spent in rating the current meter. This is done by means of rowing a boat with the meter attached as nearly parallel to the shore as possible, to a line on the land, at the ends of which transits are set up with which observations are taken so that the exact course and distance passed over by the boat can be plotted or computed. At the same time the number of revolutions of the meter, and the time are recorded. This operation is repeated quite a number of times and from this data a velocity curve is plotted which gives the relation between the velocity and the number of revolutions of the current meter.

Early in the forenoon of the second day the party rowed to the outlet of the lake and set about the accomplishment of the main object of the expedition,—the measuring of the discharge from the lake. Cross sections of the stream were made at two separate places and observations were taken with the current meter at every five feet across these sections. Then from the velocity curve, the velocities corresponding to the observed number of revolutions are read off, and the area of the sections having been calculated, the discharge is readily computed. The weather was very favorable on both days and a very fair curve was obtained, the curve, by the way, being nearly a straight line.



YE ALUMNI.

'75.

Edson F. Hitchings, Instructor in Natural Science at the Eastern Maine Conference Seminary at Bucksport, was on the campus recently. While here he took pictures of all of the college buildings.

Hon. Louis C. Southard has been elected State Senator in Massachusetts. Mr. Southard is mentioned as one of the candidates for President of the Senate.

'76.

E. M. Blanding is one of a committee appointed by the Bangor Board of Trade to consider the advisability of joining the National Board. Mr. Blanding is the editor of the Industrial Journal at Bangor.

Ex-'85.

Mr. Fred Butler has charge of the B. & A. office at Houlton.

'88.

Dr. Harry Butler has an office in Bangor.

'90.

Ralph H. Blackington was in Oldtown a short time ago on a hunting trip.

Frank W. Sawyer is practicing medicine in Everett, Mass.

Mr. C. C. Harvey, the genial editor of the Fort Fairfield Beacon, has been appointed Supervisor of Schools in Fort Fairfield.

'91.

Clarence Scott entertained the Chautauqua Circle of Oldtown, Monday evening, December 2, in Folsom block.

George E. Thompson is one of the assistant engineers on the B. & A. R. R.

'92.

S. M. Timberlake is draughting at 31 Milk street, Boston, Mass.

George Maguire is pleasantly located in Waltham, Mass.

C. M. Randlette is in Richmond, Me. He expects to continue his course in medicine at Bowdoin this winter.

George F. Rich, a non-graduate of the class of '92, has been appointed Police Judge in Berlin, N. H.

'93.

Chas. H. Gannett is practicing Civil Engineering in Augusta.

Chas. P. Kitttridge is studying at the Theological Seminary at Newton, Mass.

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George F. Rowe has a position in the pulp mill at Lincoln, Maine.

John M. Webster is a bank clerk in the State of Washington.

Clarence L. Chapman is clerk in the Bangor House at Bangor, Me.

Herbert C. Foss has a position with the M. C. R. R.

Chas. I. Haynes has been on the Shore Line R. R. survey this fall.

Chesley M. Johnson has a position in the City Engineer's office at Boston. Address, 17 Bowdoin street.

Mr. Ralph Kendrick Smith, of the staff of the Boston Journal, formerly of Bangor, and Miss Violet E. Houghtaling of Elmira, N. Y., were married on Dec. 14, at the residence of the bride's mother, Mrs. Rose Houghtaling, 223 Walnut avenue, Elmira. Roy Evans Smith, brother of the groom, was groomsman, and Miss Gertrude Houghtaling, sister of the bride, acted as bridesmaid. Mr. and Mrs. Smith will reside at 29 Batavia street, Boston.

Harry O. Robinson has a position in Everett, Mass.

Harry A. Frink, Ex-'93, is in the employ of the Bangor & Aroostook R. R.

'94.

THE CADET recently received a pleasant letter from Herbert Murray. Mr. Murray expressed himself pleased at the number of the students at Maine State, and believes that the time is not far off when the college will make a name for herself in athletics. Mr. Murray is located at Bolinas, Marine Co., California.

E. B. Wood is draughting for a firm at 31 Milk street, Boston, Mass.

F. C. Bowler has been surveying on the Shore Line R. R.

Charles W. Noyes, who took a special course with the class of '94, is attending Boston University Law School, and practicing law with Louis C. Southard at Boston.

E. H. Cowan is working for the Boston & Albany R. R. Address 19 Farrington avenue, Allston, Mass.

L. T. Durham is also working for the Boston & Albany R. R. His address is 115 Warren street, Roxbury, Mass.

G. H. Hall is draughting for the Builden Iron Foundry, 497 Washington street Providence, R. I.

'95.

A. H. Buck has been engaged in putting in an electric light plant at Corinna.

M. R. Rollins has been working on the extension of the Shore Line R. R.

I. G. Calderwood is located in Malden, Mass. His address is 177 Pleasant street.

C. D. Thomas has a position in Taunton, Mass.

M. L. Urann, Ex-'95, has been elected President of the Piscataquis County Law Students' League.

Ex-'96.

John L. Lee, who has a position with French & Bryant, civil engineers, in Brookline, Mass., is at home in Bangor on a vacation. He will return in the spring.

Ex-'97.

F. A. Emerson is taking a course in botanical work at Harvard College.



The Athenaeum, published at the West Virginia University, has in its issue of November 12th, an article on "Engineering Education and the State Universities," which would prove interesting to the students of Maine State or any other State College, as it deals with the origin and endowment of institutions of that character.

"Patriotism for America" and "A Plea for the Single Tax," the orations which took the first and second prizes in an oratorical contest at the Michigan State College, are published in full in the November *Speculum*, and give clear expression to many ideas and principles which should be more generally considered by college students.

TO THE ALUMNI!

The ad. which has occupied this space has been a source of much profit to the advertiser. How? By the fact that nearly all the former students of M. S. C. have sent ten cents and received the *SOUVENIR ALBUM* of Old Town and Orono, containing views of all the college buildings and campus. 56 views for only a dime. Address

OLD TOWN ENTERPRISE,
Old Town, Me.

**GLOBE
STEAM LAUNDRY,**
26 to 32 Temple St.,
PORTLAND, - MAINE.

Students' Washing a Specialty.

A. F. WARNER, Agent,
Maine State College.

OFFICIAL ANNOUNCEMENT of the award on GILLOTT'S PENS at the CHICAGO EXPOSITION.

AWARD: "For excellence of steel used in their manufacture, it being fine grained and elastic; superior workmanship, especially shown by the careful grinding which leaves the pens free from defects. The tempering is excellent and the action of the finished pens perfect." (Signed) FRANZ VOGT.

Approved: (H. I. KIMBALL, Individual Judge.
Pres't Departmental Committee.
(JOHN BOYD THACHER, Chairman Exec. Com. on Awards.

A FOOT BALL GAME

is no less attractive than our line of
**Smokers' Articles, Confectionery
Groceries, Crockery Etc.,**

—AT—
B. P. GILMAN'S,
ORONO, - - MAINE.

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Polytechnic
Institute,**
Troy, N.Y.

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A SCHOOL OF ENGINEERING
Local examinations provided for. Send for a Catalogue.

Extracting Made Easy.

Dr. E. L. Richardson,
Dentist,
All Work Warranted.

155 Main Street, OLD TOWN, ME.

M. G. GILMORE,
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LATEST STYLES. BEST WORK.
CLASS WORK AT LOW RATES.
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HEATH,

The Leading Photographer,
BANGOR AND ORONO.

Portraits by Electric Light a Specialty.
Sittings from 6 to 8 P. M.

COLLEGE MAGAZINE REVIEW.

The University of Pennsylvania is to have a dormitory system which it is expected will surpass that of any other college in the world. The *University Courier* for October 23, contains a very full description of the plans, and gave for the estimated cost \$1,000,000.

"The system consists of contiguous cottages of moderate size, which when completed will enclose a large quadrangle, each separate building accommodating, with sleeping, study, and bath-rooms, from twelve to fourteen students. In all there will be forty-four buildings connected with each other and forming one grand structure."

"What do we know?" is the suggestive title of a short article, in the November number of the *Integral*, which furnishes abundant food for reflection.

On our exchange list, one of the most "magaziney" school publications, (if we can be allowed that expression), is the *Pratt Institute Monthly*, which in the last issues has published some elegant art supplements. The November or "Kindergarten Number" contained quite an extensive resumé of growth of the Kindergarten movement, publishing reports from the heads of this department in the schools of the larger cities in the United States and England. The number also contains several illustrations, among which is a fine cut of Froebel's home.

The November number of the *High School Herald*, (published by the Jersey City High schools), contains the first

part of "Some Thoughts on American Universities" by A. M. Fairbairn, D. D., of Mansfield College, Oxford. In this article he makes particular mention of Johns Hopkins, Cornell and Chicago Universities, and speaks of the features which particularly impressed him.

Let us hope that the following verses which are "borrowed" from the *University Courier* would not be equally true if applied to some of Maine State's enthusiastic "rooters."

"AND THERE ARE OTHERS."

You see him on the campus, Franklin Field and in the Gym,
And look with pride at Penn's results, exemplified by him.

He seems so valiant, and so true; he wears,
so much, the Red and Blue;
And "sports" what is indeed, a pearl—a lovely Pennsylvania girl.

He yells upon the football field—the men
are all the same—
His only, best and dearest friend—he calls
them each by name.

He's always glad when Princeton's beat,
and hopes to see old Yale's defeat;
He's full of love for dear old Penn—the
noblest of Ben Franklin's men.

And yet, you're safe in judging, from the
uproar he has made,
That, though he's such a patriot, his class
dues are unpaid.

F. L. P.

The *New Hampshire College Monthly* for November comes out finely illustrated having an elegant half-tone cut of their athletic field for a frontispiece, and in addition to this has a story illustrated by two pen drawings.

for sale during the succeeding year. This sample is accompanied by a sworn statement that it is a fair sample of the fertilizer to be sold under that name, and also by a statement of the percentage of nitrogen, potash soluble in water, and the water-soluble, available, reverted, and total phosphoric acid which it contains. A similar statement must accompany each package which they offer for sale. The sample is analyzed and the result of the analysis is published in a bulletin before the 15th of the succeeding March. In the spring, after the fertilizers are offered for sale, an agent of the station visits various parts of the state and takes samples from packages of each brand. These are analyzed and the result published in the latter part of the summer. Thus it will be seen that this part of the work alone is of inestimable value to the farmer.

The fertilizer business of this state has already assumed large proportions, Aroostook County alone consuming annually about \$1,000,000 worth. As there are eighty brands of fertilizers sold in this state, their analysis forms a considerable part of the routine of the station chemist. To defray the cost of this analysis and the bulletins connected with it, the manufacturers are charged a fee of \$10 for the phosphoric acid and \$5 each for the nitrogen and potash.

The test of dairy apparatus is something new and is made in compliance with a law passed by the last legislature. At many creameries the price paid its patrons for milk or cream depends on the percent. of butter fat as determined by the Babcock test. The efficiency of this test depends on the accuracy with which the flasks used have been graduated. Each

Maine creamery using this test is required to send its flasks to the station, where they are calibrated with mercury and if found inaccurate are rejected. The station chemists have, within the last year, very materially aided the Board of Agriculture in detecting oleomargarine sold by unscrupulous dealers as butter.

It is a curious fact that, notwithstanding their wide difference in origin, the only way in which oleomargarine differs chemically from dairy butter is in its content of volatile fatty acids. Consequently in the analysis of butter to detect fraud, these are the only constituents determined.

The investigations embrace a large variety of subjects and are very carefully conducted. To show the extent and scope of the work of investigation, the following partial list of work carried on in 1889 is given. This list does not include a number of experiments undertaken previously, but not completed at that time :

A determination of the most efficient means of fertilizing a worn out orchard ; a determination of the loss incurred in selling sweet corn to factories and the percentage of manurial and feed value contained in the whole crop that is removed in the kernel ; to determine whether the fertility of the soil can be as effectually and economically maintained by the use of commercial fertilizers as by farm manure ; a determination of the actual and relative digestibility of wheat middlings and wheat bran ; to determine the value of ground oats for swine ; to determine the influence of linseed meal on the flavor of butter ; to ascertain the causes of potato scab ; to ascertain the efficiency of spraying certain liquids on apple trees for the

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THE CADET.

NEW SERIES.

VOLUME X.

FEBRUARY, 1896.

No. 7.

EXPERIMENT STATION WORK.

PROBABLY very few, even among the students, realize the extent and importance of the work carried on in the building known as the "station." The Experiment Station is not, as many suppose, a government institution but is a department of the college and under the control of the college trustees, although the fund for its maintenance is supplied by the government under the provisions of the Hatch Bill. All of the stations are united under the head of the Bureau of Experiment Stations of the general government. This bureau inspects the stations frequently to satisfy itself that the money is being expended properly and also publishes a monthly magazine known as the Experiment Station Record. This contains a review of the work of the various stations and other matters of interest to station workers. The Maine Station is controlled by a council composed of a committee of the trustees, a representative of the State Board of Agriculture, of the State Pomological Society, and of the Maine State Grange; the President of the College, the Director of the Station and four members of the Station staff. Its staff consists of the Director, who has immediate control, a Botanist and Entomologist, three Chemists, a Veterinarian, a Horticulturist and his

assistant, a foreman on the farm, a Meteorologist, and a Stenographer and clerk.

The equipment includes the Station building with its laboratories and offices, the forcing houses, the stable, and the farm.

The work of the station may be divided into two general heads: police work and investigation. The police work has for its purpose the prevention of fraud in the manufacture and sale of fertilizers, and dairy products and supplies. Complete commercial fertilizers contain, as the chemists know, nitrogen, potash and phosphoric acid, and on the amount of these ingredients which a fertilizer contains depends its value. Since the amount of these can only be determined by a somewhat complicated chemical analysis, which is of course out of the reach of the farmer, one can see that there is great opportunity for fraud on the part of the manufacturers. This is prevented by the law which requires that a careful and complete analysis of each brand be made by the station chemists before it can be offered for sale in this State. The manufacturers are required to deposit with the station, between the 15th of November and the 15th of December, a sample of each brand which they intend to offer

for sale during the succeeding year. This sample is accompanied by a sworn statement that it is a fair sample of the fertilizer to be sold under that name, and also by a statement of the percentage of nitrogen, potash soluble in water, and the water-soluble, available, reverted, and total phosphoric acid which it contains. A similar statement must accompany each package which they offer for sale. The sample is analyzed and the result of the analysis is published in a bulletin before the 15th of the succeeding March. In the spring, after the fertilizers are offered for sale, an agent of the station visits various parts of the state and takes samples from packages of each brand. These are analyzed and the result published in the latter part of the summer. Thus it will be seen that this part of the work alone is of inestimable value to the farmer.

The fertilizer business of this state has already assumed large proportions, Aroostook County alone consuming annually about \$1,000,000 worth. As there are eighty brands of fertilizers sold in this state, their analysis forms a considerable part of the routine of the station chemist. To defray the cost of this analysis and the bulletins connected with it, the manufacturers are charged a fee of \$10 for the phosphoric acid and \$5 each for the nitrogen and potash.

The test of dairy apparatus is something new and is made in compliance with a law passed by the last legislature. At many creameries the price paid its patrons for milk or cream depends on the percent. of butter fat as determined by the Babcock test. The efficiency of this test depends on the accuracy with which the flasks used have been graduated. Each

Maine creamery using this test is required to send its flasks to the station, where they are calibrated with mercury and if found inaccurate are rejected. The station chemists have, within the last year, very materially aided the Board of Agriculture in detecting oleomargarine sold by unscrupulous dealers as butter.

It is a curious fact that, notwithstanding their wide difference in origin, the only way in which oleomargarine differs chemically from dairy butter is in its content of volatile fatty acids. Consequently in the analysis of butter to detect fraud, these are the only constituents determined.

The investigations embrace a large variety of subjects and are very carefully conducted. To show the extent and scope of the work of investigation, the following partial list of work carried on in 1889 is given. This list does not include a number of experiments undertaken previously, but not completed at that time:

A determination of the most efficient means of fertilizing a worn out orchard; a determination of the loss incurred in selling sweet corn to factories and the percentage of manurial and feed value contained in the whole crop that is removed in the kernel; to determine whether the fertility of the soil can be as effectually and economically maintained by the use of commercial fertilizers as by farm manure; a determination of the actual and relative digestibility of wheat middlings and wheat bran; to determine the value of ground oats for swine; to determine the influence of linseed meal on the flavor of butter; to ascertain the causes of potato scab; to ascertain the efficiency of spraying certain liquids on apple trees for the

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prevention of apple scab; to determine the effect on their vitality of keeping seeds; to determine the life history of the apple maggot and the best means of preventing its ravages; the study of hog cholera and swine plague; test of the economy of egg and meat production with certain breeds of poultry; to test the value of large and small fruits in various parts of this state, and seventeen others of various nature. Investigations in animal nutrition have always been popular here and until a few years ago one-half of all the digestion experiments ever done in this country were performed at this station. In late years other stations have taken up this work and this proportion has been reduced somewhat, but digestion work still holds an important place here. One of the most thorough digestion experiments ever undertaken is now nearing completion at the Maine Station. Four steers have been fed for a few years on different rations. Two of them have been on a wide ration and the other two on a narrow ration; that is, in one pair the ratio of protein to carbo-hydrates in the fodder has been greater than with the other pair. Last winter one pair was killed and a complete analysis of every part of the body made. This winter the same process will be repeated with the other pair and thus the effect of a wide or nutritive ratio on every organ of the body determined.

A similar analysis was made many years ago in Europe, but it has never been attempted before in this country.

The greatest care is taken in these experiments that there shall be no error. The food is carefully weighed and the animals isolated in pens constructed especially for this purpose.

The investigations in animal nutrition include determinations of the digestibility of the different fodders, both singly and in combinations; the effect of different foods upon the formation of flesh or milk, and, as in the case of the steers mentioned above, the effect of different rations upon different parts of the body. As a result of these investigations the farmer is able to make up a ration that will give the best results consistent with economy, with any particular class of animals.

The investigations in plant nutrition are carried on in the field and forcing house, but principally in the latter, because there the conditions can be more easily controlled and consequently the results are more reliable. Their chief object is to determine the availability and value of the many forms of fertilizing materials within reach of the farmer.

Every visitor to the forcing house has noticed four rows of square boxes occupying a prominent place in the front house. These are used in a plant nutrition experiment and which illustrates both the methods employed in these investigations and the care and completeness with which all station work is conducted. These boxes are filled with sand and planted with representatives of the prominent families of agricultural plants. These are arranged into groups of twelve boxes each and each group is divided into three duplicate sets of three boxes each. These groups are planted respectively with clover, peas, potatoes, tomatoes, turnips, ruta bagas, corn and barley. One box of each set is supplied with acid phosphatic Florida rock, one with finely ground phosphatic rock, one with a phosphate of iron and alumina, and one

with no fertilizer. The crop, when ripe, is dried, weighed and analyzed. In this way they are able to ascertain the power each plant has for obtaining food.

This experiment has been running for some years and will be continued for some time longer but with a new series of plants. The plants are usually photographed before they are harvested and the plates used to illustrate the station reports.

The work of the Horticultural department is varied in its nature and includes tests of new varieties, experiments in forcing house methods, spraying for insects and fungi, and plant variation in which Professor Munson is especially interested. Professor Munson's work on tomatoes has attracted wide attention; his success in crossing the currant tomato with the Lorillard receiving especial notice. The currant and Lorillard are members of different species, and all previous attempts to cross them had proven unsuccessful. The fruit of the currant, as its name implies, is small and borne in clusters, while the Lorillard is much larger but less fruitful. By removing the stamens from the flower of one and fertilizing its stigma with pollen from the other, Professor Munson succeeded in producing seed from which he raised a hybrid possessing some of the qualities of both its parents. The fruit is borne in large clusters like the currant but is larger. This will be crossed again with the Lorillard until the fruit is sufficiently large to be of marketable value. An investigation is being carried on at present to ascertain the effect of propagating carnations by cuttings through several generations.

Another interesting investigation

is to observe the respective merits of surface watering and sub-irrigation. Two beds of lettuce are grown side by side and one watered in the usual way while the other is supplied with a system of tile pipes with an opening at one end to admit water. The Horticultural department controls a number of orchards in different parts of the state where tests of the hardiness and fruitfulness of fruit trees are carried on.

Closely connected with this department is the Botanist and Entomologist. His work is more especially along the line of investigations in the nature and means of suppression of injurious insects, fungi and weeds. The Station Botanist and Entomologist receives a large number of inquiries from farmers in regard to the nature of insects and fungi injuring crops, and especially fruits, which from their minute and complex nature can only be thoroughly studied by an expert. Professor Harvey's best work was the investigation of the life history and habits of the *Trypeta Pomonella* or apple maggot. The report of the investigations on this insect occupy fifty-one pages of the station report and is very thoroughly and carefully prepared. Minute descriptions of every part of the insect is given, its life history and habits carefully traced, and the report illustrated with a large number of fine cuts, many of them from drawings made from life by Professor Harvey. The late Professor Riley, who was at the time of his death United States Entomologist, called this the finest piece of station work of its kind ever done. This is given simply as an example of the work that Professor Harvey is doing.

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gations in regard to the causes and means of prevention of animal diseases. The Station building contains a well equipped bacteriological laboratory, and much work has been done in investigating the relation of bacteria to animal diseases. Dr. Russell has paid special attention to glanders, hog cholera and tuberculosis.

In recognition of the important work done by Prof. Jordan in animal nutrition, the government has placed at his disposal money to be used in investigations in human nutrition. This work is carried on under Prof. Jordan's direction, by Mr. Fred C. Moulton, '91. Its object is to determine the exact amount and cost of nutrition consumed by students. A careful account is kept of the amount and cost of the raw material used at the college boarding house and samples of this and the cooked food weighed and analyzed in Mr. Moulton's laboratory. The moisture, ash, protein, fat, and carbo-hydrates, such as sugar and starch, and from these the energy of the food is calculated in much the same way as the engineers calculate the energy of coal.

The students are experimented upon to some extent, as the nature of the food is varied slightly in different periods. For instance, in one period last term the boarders were given all the milk they would use and the next the supply was limited. This was to

ascertain whether the milk took the place of other food or was an extra expense. Thus the students are unconsciously doing a scientific work of no small importance. It is Prof. Jordan's intention, when this work is completed, to conduct some experiments to determine the amount of heat consumed in cooking, the proper temperature of an oven, and the effect of cooking on digestion. For this purpose special ovens have been constructed and some healthy person will be employed to eat a certain amount of a certain food for a period of several days. A fixed amount of bread and milk will be given as a constant food and the rest varied at the pleasure of the director. It is hoped by this means to learn some new and interesting facts in human nutrition. The investigations and experiments are made public through the Station bulletins which are issued at frequent intervals. These are as untechnical as possible and are intended especially for farmers with a limited scientific knowledge. These are sent to any one requesting them and their usefulness is seen in the large mailing list, which contains about 10,000 names. The annual report contains the substance of all of these, but is made more complete so that it will be of value to other Experiment Station workers and to scientific men in general.



PITCAIRN ISLAND.

Lindsay Duncan.

IT was my privilege this spring to visit a lonely island in the South Pacific many hundreds of miles from the nearest inhabited land, different in appearance and geological formation from any of the neighboring islands and peopled by a race different from all other South Sea Islands. This was Pitcairn Island, and its people are descendants of the mutineers of an English man-of-war, the "Bounty."

Their history runs somewhat as follows: Towards the end of the last century the British government, desiring to introduce the East Indian "bread-fruit" tree into the British West Indies, despatched Lieut. Bligh in the ship "Bounty" to Tahiti, to procure a cargo of the young trees and bring them to Jamaica.

Bligh (who, by the way, had the reputation of being a very stern disciplinarian,) carried out the first part of his mission without any adventure worthy of note; and on arriving at his destination, found that he must wait six months in order to get the fruit trees at the proper time of the year for transplanting. While at Tahiti the English sailors made so many acquaintances among the dusky belles on shore, that when the time came for departure they were exceedingly loath to go. However, that was of no avail, and when the "Bounty" sailed she bore along many a discontented sailor. This discontent increased as time went on, and matters finally culminated in a successful mutiny headed by one Christian.

Lieut. Bligh and those of his officers and men who remained loyal to him were placed in an open boat and set adrift, while the "Bounty" was headed back towards Tahiti.

Bligh and his companions succeeded in reaching the Dutch island of Timor after one of the longest open boat voyages on record, and soon found means of returning to England. No blame seems to have come to Bligh for the disastrous end of his enterprise, for he was almost immediately given another command and in the course of time reached the dignity of an admiral.

After the "Bounty" reached Tahiti the crew gave themselves over to a round of debauchery and drunkenness, in blissful disregard of the retribution that was sure to follow their crime.

Christian, who seems to have retained a sort of leadership throughout the whole affair, gave each of the crew the choice of remaining at Tahiti or sailing away in the "Bounty" to some more secure place. The larger portion of them chose to remain, but Christian and eight others sailed away, taking with them eighteen natives—nine men and nine women. Those who remained at Tahiti were seized by the next British cruiser that arrived, and sent to England in irons. Three of them were afterwards executed and the rest pardoned.

Christian and his companions seemed to have vanished completely from the face of the earth from the moment they sailed from the harbor. Forty years afterwards their descendants were discovered by an American whaler, living in peace and prosperity on Pitcairn Island.

It appeared that after Christian cut his cable and went out to sea, they sailed for several days without any idea other than of getting away from Tahiti as rapidly as possible. After a long

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dispute as to their destination they finally settled upon Pitcairn, then newly discovered and known to be fertile and uninhabited. On their arrival at the island they took everything of value out of the ship and then ran her ashore in a little cove on the north side (since named Bounty Bay) in order that they might get the timbers with which to build their houses.

From the very first there was turbulence and disorder. The Englishmen married the Tahitian women and reduced the men to a state of bondage. They rebelled against their masters and in the fighting that followed three of the whites and all of the Polynesians were killed. But the strife did not end here; for the Englishmen quarreled and fought among themselves until one man, whose real name was Alexander Smith, but who is better known by his assumed name of John Adams, found himself left the sole male survivor, with a large colony of women and children on his hands. Before the death of his companions he had been as wild and wicked as any of them; but their tragic fate seemed to have made a deep impression upon him, and, left in comparative solitude, Adams took to reading the Bible which had been saved from the "Bounty," and he would sit alone for hours in a cave overlooking the sea, reading, thinking and praying. As a result of these solitary communings with God, he became a sincere christian and was the means of converting every soul on the island.

The succeeding history of the little community was in the main uneventful. They increased in numbers until their island home became too small for them; and some friends raised the means for them to go to Norfolk Island, which was given them for that purpose by the British government. Some of the people were not satisfied in their new home and finally two families, numbering in all fourteen persons, returned to Pitcairn.

The present islanders are the descendants of these two families, increased from time to time by people from the outside world who have joined their colony. The present population of the island numbers about one hundred and twenty.

When approaching Pitcairn Island from the northward, the mariner's first care is to avoid the low-lying and dangerous coral island of Oeno, which is about sixty miles due north. Pitcairn, I might state here, is in latitude 25 degrees south, and longitude 130 degrees west, and about 3,600 miles from South America. After having successfully passed Oeno, Pitcairn, which is 2,500 feet high in some parts, can be seen on a clear day about forty miles away. When first seen it looked like a bluish haze on the horizon; but as the ship approached, the island gradually assumed more definite form until we could see first the general outlines of the hills, then the patches of woods, then the breakers along the shore, then the white houses of the natives, and finally we saw a couple of boats putting out from shore. When they came along side I thought I had never seen such a queer assortment of the "genus homo." Their complexions ranged in hue from that of the comparatively white "naturalized" citizen from Nantucket, to the almost black descendant of the South Sea Islands. Their apparel was mostly the cast off belongings of visiting mariners, and when a mariner casts anything off it is pretty far gone.

Their boats were loaded with tropical fruits, such as bananas, oranges, lemons, pineapples and cocoanuts. These they wished to trade for beef, cereals, hard bread, coffee, condensed milk, needles and thread, things that were not produced on the island. All that they received was turned into a common store, for everything they have is owned in common, the government of the

island being a sort of commune, the only successful one in existence, so far as I know.

After their trading was finished, they spread over the ship and proceeded to beg for everything that took their fancy. Scented soap and perfumery were their hearts chief desire, (especially scented soap), besides handkerchiefs, towels, newspapers, magazines, and almost everything else they caught sight of.

They told us that vessels visited there on an average of once in two weeks, the island being in the track of vessels bound home from San Francisco and Puget Sound ports around Cape Horn. A short time before our visit, an English vessel had been wrecked on Oeno, the crew escaping in the ship's boats to Pitcairn, where they remained until taken off by a passing vessel, leaving their boats behind in payment for the islanders' hospitality.

Just before our visitors left us they offered to sing for us, and to my surprise we were favored with several "Moody and Sankey" hymns, while a coffee colored, barefooted individual

played the accompaniment on our cabin organ. We found that they had a regulation school house on shore, presided over by a "school marm" educated in San Francisco. On Sundays, the school house serves as a church, services being held there regularly. Music is furnished by an Estey organ which they imported from the United States a few years before.

Pitcairn Island differs from most of the islands in the South Pacific in that it is of volcanic origin instead of coral formation. It has consequently no fringing reef, and the water is deep close to shore. In fact it is deeper a mile from Pitcairn than it is a hundred miles out from New York. High hills and cliffs are the principal features of the island.

The climate is very mild and of even temperature the year round, but the people regard July as their worst month, as they are occasionally visited by severe storms during that month.

There are no streams or brooks on the island, and the inhabitants have to depend for water upon the rain they can catch and save in cisterns.



Difficulties overcome, become horses which draw our chariots.

A lazy man does his hardest work looking for an easy place.

People who think too little are sure to talk too much.

The man who is close with money is often liberal with advice.

The Bible is full and complete as a book of direction; human life is full and complete as a field of exercise.

Consciousness of ignorance is no small part of knowledge.

The ship is likely to be steered with best certainty when the pilot's eye is to heaven and his hand on the wheel.

It is a sign a man is generally in the right, who has the ingenuousness to own himself sometimes in the wrong; that he is one of those whose fund of reputation is so great, he is not afraid of impoverishing by taking or losing a little from it.

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DEVELOPERS AND THE CHEMISTRY OF DEVELOPMENT.

A. B. Aubert.

THE ordinary dry plate is covered with a coat of gelatine, holding in suspension silver bromide. Upon exposing these plates to the action of light they undergo an alteration which is not visible to the eye; exposed to the image formed in a camera they undergo a similar change which is not visible and is called the latent image. Development has the effect of making this change apparent. There are two explanations usually offered; the one which is purely chemical advances the idea that light reduces the bromide of silver into sub-bromide or even silver, the particles being so small as to be invisible; the developer reduces the sub-bromide to metallic silver which gives the dark parts of the image, the gradations of shade being formed by slighter and slighter quantities of reduced silver being present in the film.

The other, which is a chemico-physical explanation claims that the action of light causes a molecular grouping which renders the silver salt more easily reduced by the action of a developer or reducer.

If the first explanation were true, one would expect that by a prolonged exposure the reduction of silver would be so great that the image would become visible without the aid of a developer; such however, is not the case.

The second explanation is somewhat supported by the fact that light so changes the silver of the daguerreotype plate that those parts most exposed to it are most readily affected by the vapors of mercury; this would argue that some molecular change must have taken place. From what has been said it is evident that a good reducing agent will in all

probability also form a good developer, such an agent is found in hydrogen, especially when in what is called the nascent state, which by uniting with the bromine of the bromide of silver would form hydrobromic acid and set the silver free.

The substance chosen to furnish the hydrogen is usually water, which being formed of hydrogen and oxygen must be mixed with some substance having affinity for the oxygen and which will unite with it; some of the most useful substances for such a purpose would be ferrous oxalate, pyrogallol, hydroquinone, iconogen, paramido phenol, etc.

FERROUS OXALATE DEVELOPER.

Ferrous oxalate is formed when a soluble ferrous salt is treated with oxalic acid or a soluble oxalate. It is a yellow powder nearly insoluble in water. In making up a developer of this substance we must add an alkaline oxalate in order to keep enough of the ferrous oxalate in solution to act with a fair amount of rapidity. The plate being immersed in a developer of proper strength the following reactions take place: ferrous oxalate takes up oxygen from the water, being converted into ferric oxalate and oxide, the hydrogen which is set free acts upon the actinized bromide of silver, taking up bromine and forming hydrobromic acid while metallic silver is set free.

To accelerate the process of development in under exposed plates, the addition of a drop or two of hyposulphite of soda to the ferrous oxalate may prove beneficial. The method of its action is not well known, but it is supposed that it dissolves a small superficial

quantity of the argentic bromide, thus allowing the developer to come into more intimate contact with the lower strata of bromide.

To retard or moderate the action of the developer an oxydizer may be employed, such for instance, as bichromate of potash, which must be used in very small quantities and most cautiously; by its oxydizing properties it, in part, counterbalances the reducing properties of ferrous oxalate. Other retarders act upon the silver, giving up bromine to it and converting some of the reduced silver back to bromide again; the bromides of iron and copper act in this way.

The alkaline bromides, such as potassic bromide, may be used to retard development, but their action differs from that of iron or copper bromides, they combine with some of the actinized bromide of silver, forming a double bromide which is not reduced by the developer.

PYROGALLOL,

also called pyrogallie acid, is a white crystalline powder which may be obtained from gallnuts; it is very soluble in both water and alcohol. In aqueous solution it has the property of absorbing oxygen from the air, acetic and oxalic acids being formed as well as some little known brownish substances. This reaction is heightened by the addition of an alkali which neutralizes the acids formed and facilitates the reaction. Pure pyro would not have sufficient developing power, but by the addition of potash, soda and ammonia, or, what is better still, their carbonates, an excellent developer may be prepared.

The following reaction takes place during development; the pyro uniting with oxygen of the water sets hydrogen free; this reduces the bromide of silver combining with the bromine to form hydrobromic acid. The alkali combines with this acid as well as with the acetic

and oxalic acids due to the decomposition of the pyro, in this way it exerts an action of its own, or rather adds its action to that of the pyro.

HYDROQUINONE

is a coal tar product more or less closely related to pyrogallol. The presence of alkalies is necessary for the hydroquinone to exert a sufficient reducing action to develop the latent image.

Its action is quite similar to that of pyro. Soda, potash or ammonia or the alkaline carbonates must be present. The addition of sodic sulphite will prevent, in part at least, the too rapid oxydation or coloration of the solution.

ICONOGEN

is probably related to the di and tri phenols. It has the power of reducing actinized bromide of silver when in alkaline solution; it possesses considerable developing energy, necessitating less alkali than pyrogallol does. Though in the preparation of a developer three times as much iconogen may be used as pyro.

PARAMIDO PHENOL.

The chloride of paramido phenol is usually used, being more soluble than paramido phenol. Alkali must be present in the mixed developer to bring about the proper amount of reduction.

In this case, the oxygen of the water oxydizes the paramido phenol. Hydrogen is set free which reduces the argentic bromide to metallic silver, combining with the bromine to form hydrobromic acid which combines with the alkali.

The above is a very condensed account of the action of the most popular developers. Much more might be said upon the subject, but it is hoped that this may be sufficient to give our amateur photographers a good idea of what goes on during development, and *develop* in them a desire to look deeper into this very interesting subject.

MAINE STATE COLLEGE }
CHEMICAL LABORATORY. }

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EDITORIALS.

THE CADET.

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AGAIN it is necessary to apologize for a late CADET. The editors are very sorry that the college paper is always behind time, but under the circumstances it is next to impossible to get it out on time. The present board took THE CADET with a heavy debt and very few assets. The printer cannot be expected to do his best work under these conditions, and the interest of the editors themselves has waned with each issue. It is work enough to get out a college paper under the best circumstances, but with the present poor financial condition and the continual complaints of the students it is disagreeable work to say the least. The paper is managed as economically as possible without falling too far below its former high standard, and the business management is hoping to leave the finances in better condition than they were when THE CADET came into our hands.

* * *

ANOTHER reason for the delay of THE CADET, is the scarcity of articles of any length. Instead of having a number of meritorious articles to select from, the editor is obliged to beg matter of the alumni, faculty, or any one else who is kind enough to help us out. Contributions are very frequently late, or sometimes do not appear at all, and since the paper cannot go to press with-

out some leading articles, it must necessarily wait. This issue contains a very good article that is a right step in the right direction. When the students themselves take a lively interest in THE CADET and feel that it is their paper, the path of the editors will be truly strewn with roses.

* * *

THERE are many other things that we would like to complain about, but we would not have our readers think that our financial condition has converted us into chronic growlers, and we will turn to more pleasant subjects. The American college fraternity system has grown in a comparatively short time, and in spite of early opposition, into large proportions and comparative importance in the college world. There is probably no college in the country where the fraternities are in better condition or are better conducted for the good of all concerned than at Maine State. The faculty recognizes this in the improved discipline of the students. Now that the four fraternities are each provided with quarters of their own, the college furniture and apparatus has fallen into a habit of remaining quietly at home in marked contrast to its former reckless ways.

* * *

ALTHOUGH the firm hand of the President has had much to do with the suppression of hazing in Oak Hall, the fact that a majority of the college and class leaders have gone with their fraternities to the chapter houses has aided not a little in effecting this end. The more the chapter houses are improved and made home-like the less will their members be found on the streets evenings. At Maine State, fra-

ternity jealousy is, as a general thing, kept in the back ground in all college matters but it will occasionally crop out. Fraternity men should always remember that any such exhibition not only injures the college matter concerned but also themselves and their fraternity. The percentage of students in fraternities here is only about fifty, which is much lower than that of nearly all colleges having fraternities. Any fraternity seeking new chapters could not do better than look over the material here.

* * *

It is a hard thing to understand why the college boy hardens his conscience enough to "swipe" nearly everything that takes his fancy, an action that at

any other time of life he would regard as downright theft. Almost every college room is adorned with signs of various descriptions, relics of railroad disasters, souvenirs, and many other things that have been purchased without the owners' consent. This practice is seen from the opposite side when it comes to taking the illustrated papers and magazines from the library and reading room. When the librarian arranges the magazines for the binders at the end of the year, many numbers of the best and most costly illustrated magazines are missing. The large majority who are not concerned in this petty, but none the less mean, purloining should do everything in their power to suppress it.



THE SENIOR DEBATE.

The Senior debate which had been scheduled to take place since last spring as a "Junior" debate, finally took place in the chapel on Friday evening, November 22, before quite a large audience. This was the first competition for the prize offered by Hon. Henry Lord of Bangor, President of the Board of Trustees of the college, and which will be in the future a fixed event on the calendar of the college. The subject for discussion was that of the annexation of the Hawaiian islands, and read as follows: Resolved, That it would be beneficial to the United States to annex the Hawaiian islands. The contestants were four in number and were selected by the faculty from a list of ten, nominated by the class, and were as follows: Affirmative, Perley B. Palmer and Paul D. Sargent; Negative, Joseph W. Randlette and E. Everett Gibbs. The debate was opened by Mr. Palmer, followed by Messrs. Gibbs, Sargent and

Randlette, who after their first speeches, were allowed ten minutes for reply. President Harris presided. The discussion was remarkably good considering it was the first venture of the kind, and the lack of training in which we have in the past been quite deficient. The speakers showed considerable knowledge of their subject, the repartee was lively, and while it may be said that both sides wandered from the subject on the second round of speeches, this was nothing serious, and before the end invariably there would be some straight thrusts made at the mark.

To be able to get upon one's feet and talk, and at the same time say something, is a thing that too few of the students can do with any degree of certainty as to the result of their efforts, but debates, impromptu or otherwise, are moves in the right direction, and will, together with the morning "rehearsals" in chapel, tend to make us all orators.

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LOCAL NOTES.

Master, Master! News, old news, and such news as you never heard of."

—The Taming of the Shrew,—Act III, Sc. 2.

Prof. Jordan recently went to New York on business.

Mrs. Balentine has been elected Secretary of the Faculty.

February 14th has been set for the date of the Junior hop.

The Kappa Sigmas begin this term in their fine new chapter house.

Several students went to Bangor Feb. 5, to hear Cleveland's Minstrels.

Mr. Jackman, our instructor in pharmacy, was married during the vacation.

Prof. Flint will build a residence this spring, near Prof. Bartlett's house, on College Street.

Captain and Mrs. Edgerly spent a part of the vacation in New York and Washington.

Some confusion, at the beginning of the term, resulted from the new recitation schedule.

A. D. T. Libby's father recently met with the misfortune of losing his house and barn by fire.

The Faculty tendered a reception to the Maine Federation of Women's Clubs Tuesday evening, Feb. 11th.

The Maples Club and the Gowells entertained the Faculty at their home, Wednesday evening, Feb. 5th.

Uncle Ben comes out at the beginning of another term with a new horse in place of old familiar "Whitie."

Miss Pottle, formerly of Rice & Miller's, has the position of book-keeper and stenographer at the college.

O. W. Knight gave a lecture on the birds of Maine recently, before the Natural Science Association of Bangor.

Among the innovations this term are some recitations in the afternoon and elective mathematical recitations Saturday forenoons.

The electric cars, which ran so irregularly last month on account of anchor ice in the river, are again running on schedule time.

A large number of the students attended the Bowdoin Glee Club's concert in Old Town, Feb. 12, and are loud in their praise for its excellence.

Among the old men who have come back to us after longer or shorter periods of absence are: Urann, '95; George Haley, '96, and Farnham, '97.

The Seniors have a hard term's work mapped out for them, which is contrary to the previous custom of making the last term of the course rather easy.

The new students who have entered this term are: M. F. Hopkins, Milo; McLaughlin; George F. Murphy, Goodwin's Mills; W. S. Wheeler, Hudson, Mass.

Prof. Harvey was one of the speakers at a meeting of the Maine State Pomological Society, held at Presque Isle, Wednesday and Thursday, Jan. 8th and 9th.

New tables have been introduced into the college boarding house. They are square oak tables, each accommodating eight persons. Other improvements have also been made.

Work has begun in earnest, at the beginning of this term, on the '97 Prism, which will have many new features introduced to make it a most attractive book, and one that every student should possess.

Prof. Jordan spoke on the subject of Stock Feeding at the Farmers' Institutes held at Madison, Dec. 30; Solon, Dec. 31; Harmony, Jan. 1; East Sangerville, Jan. 2; Milo, Jan. 3; and Charleston, Jan. 4.

The chemical laboratory will be repaired. It is planned to raise the ell recently damaged by fire, to the same height as the main building. The building is then to be refitted and called Fernald Hall in honor of Ex-President Fernald.

The Seniors begin this term, Masonry, Constitution and Psychology. The Juniors, Machine Design, Heat and Steam, Descriptive and Practical Astronomy. The Sophomores, Calculus, Descriptive Geometry, and Surveying. The Freshmen, General History and either Botany or Mechanical Drawing.

The Prentiss prize for excellence in declaiming was divided between Miss Grace L. Fernandez of Dexter and Charles S. Webster of Portland. The prize offered by Hon. Henry Lord of Bangor and competed for by the Seniors in debate has been awarded to E. Everett Gibbs of Bridgton, with honorable mention to Perley B. Palmer of South Bridgton.

The College has recently come into possession, through the generosity of Dr. Augustus A. Hamlin, Bangor, of a collection of nearly fifty specimens of minerals and other material. The minerals include good specimens of tourmaline of various colors, lepidolite, selenite, cassiterite, amblygonite, margarite, topaz, rose quartz and silver ores. The collection embraces the bones

and the plaster casts of a cetacean found several years ago imbedded in the clays at High Head, Bangor. The college is especially glad to receive accessions to its collections of specimens that will aid in illustrating the natural resources of the state.

Those who are taking the Short Course this winter are: Arthur B. Abbott, North Paris; William E. Abbott, North Paris; Charles O. Bosworth, Old Town; Edwin A. Croswell, Farmington Falls; Charles K. Hopkins, Camden; Nathan B. Hopkins, Camden; George F. Low, Shawmut; William O. Hacker, Westbrook; Edward E. Mansfield, Orono; Ernest E. Page, Kenduskeag; Frank A. Rich, Charlotte; Alfred B. Towle, Sherman Mills; George E. Townsend, Parsonsfield.

The movements of some of those in whom our readers will be interested are as follows:

Professor Nichols was at his home in Hartford, Conn.

Professor Jackman spent his vacation at Detroit.

Professor Hart visited Harvard, Cornell, and M. I. T. this vacation.

Professor Lamphear spent a part of his vacation at his home in Carthage, N. Y. He afterwards visited Cornell.

Prof. Howard S. Webb spent his vacation with his mother in California.

'96.

George Haley is teaching in Brownfield.

Lore A. Rogers remained on the campus during the winter vacation.

John Alvah Starr canvassed during the winter vacation.

Frank E. Weymouth has been teaching in Medford.

Beecher D. Whitcomb remained on the campus during the winter vacation.

W. R. Page is teaching in Hampden. Walker, '96, is at work in a machine shop at Whitinsville, Mass.

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'97.

Harry A. White is teaching in Orrington.

C. S. Bartlett, (Nick), has been canvassing this winter.

Russell, '97, left college the latter part of the term, called home by the death of his brother.

'98.

Marks was absent from college the last few weeks of the term.

Russell O. Dunn canvassed during vacation.

Grace L. Fernandez taught at Sangerville.

Albion D. T. Libby is teaching at West Rockport. P. O. Box 25.

Edwin E. Nowlan has been canvassing during vacation.

Fred M. Tolman taught in Carroll.

Walter J. Morrill has been teaching the East Madison High School.

Leon E. Ryther has been teaching in Georgetown, Maine.

Alfred A. Starbird taught at West Paris.

H. P. Merrill is working in the woods for Tom Gilbert of Orono.

W. C. Smith is teaching in Gray.

Horace L. White is teaching at West Winterport.

'99.

William E. Files canvassed during the vacation.

Fred L. Varney is teaching at Olamon.

Beckwith and Files W. E., '99, will not return to college this term.

Soule, '99, has entered Bowdoin this winter.



YE ALUMNI.

'72.

Hedde Hilliard is engaged in engineering work on the construction of a stone dam across the Kennebec at Madison, Me.

'75.

Edson F. Hitchings, Instructor in Natural Science, Eastern Maine Conference Seminary, was on the campus recently with some very fine views of the college buildings for sale.

W. H. Jordan, Director of the Maine Experiment Station, read a paper January 16, before the New Jersey State Board of Agriculture, on "Conservatism in Scientific Education," and on the 18th read the same paper before the Massachusetts State Horticultural Society at Boston. On the 17th he attended a

banquet given Prof. Atwater at Middletown, Connecticut, by his associates in early station work. Prof. Atwater was the director of the first Agricultural Experiment Station in this country, and was for a short time Professor of Chemistry at the Maine State College.

Albert E. Mitchell recently refused an offer of a position of foreman in establishing some railroad machine shops in Russia.

'76.

Edward M. Blanding was one of the committee appointed by the Bangor Board of Trade to see about the advisability of joining the National Board.

'83.

Janie C. Michaels, the author of that charming little book, "A Natural

Sequence," has accepted a position as teacher in the Guilford schools.

Truman M. Patten has entered a law office in Sioux Falls, S. D.

Levi W. Taylor is principal of the Calais High School.

'85.

Louis W. Riggs is Assistant Professor of Chemistry in the University of the City of New York.

Fremont L. Russell has been elected president of the Maine Veterinary Medical Association.

'86.

Edwin D. Graves has charge of the construction of a bridge costing \$200,000, across the Connecticut river between Portland and Middleton, Conn. He is connected with the Berlin Bridge Company.

'88.

Harry Butler is practicing medicine in Bangor.

A. W. Sargent was on the campus recently.

'89.

Jere S. Ferguson has been presented with another boy. Dr. Ferguson is doing finely in New York. His address is 355 West 28th street, New York City.

Gilbert S. Vickery was on the campus recently.

'90.

Frank O. Andrews is with the Worthington Pump Company of Brooklyn, N. Y.

C. A. Dillingham, Ex-'90, of Old Town, has been on the campus recently.

Nathan Grover is studying at the Massachusetts Institute of Technology.

Everett F. Heath has been on the campus recently.

Edward N. Morrell is chemist in the smelting works of a copper mine in Ivanhoe, N. M.

Frank W. Sawyer is practicing medicine in Everett, Mass.

The marriage of Ralph Harvey Blackington, of Rockland, who has many

friends in Bangor, and Jessie [Lee Burkett, of Thomaston, took place at the residence of the bride's mother, Mrs. Isaac H. Burkett, at noon Wednesday.—*Commercial*, Jan. 23, '96.

Among the Maine postmasters nominated Wednesday, were H. W. Raymond for Cumberland Mills, C. C. Harvey for Fort Fairfield, and A. L. Stephenson for Togus. Mr. Harvey is one of the able and rising young men of Aroostook. He was graduated at the Maine State College and until recently was the editor of the Fort Fairfield Beacon. That he is popular with all parties was indicated by his election to the position of superintendent of schools in Fort Fairfield in which he has served most efficiently. His friends will congratulate him upon his appointment to a new and more responsible position.

—*Commercial*, Jan. 23, '96.

'91.

Hugo G. Menges is inspector of sewers in Somerville, Mass. His address is corner Winchester avenue and Newburn street, Medford.

William M. Bailey is doing civil engineering work in Medford, Mass.

Henry V. Starrett is at his home in Warren. He is at work on the Maine Register.

George G. Thompson has been one of the engineering force on the B. & A. R. R. during the past summer.

Edmund Clark has severed his connection with the Carnegie Iron Works, and has accepted an appointment as a chemist for the Board of Health of New York City.

R. G. Lord has, in company with another young man, purchased a plumbing business in Pittsfield, Me.

C. H. Kilbourne has recently been appointed one of the milk inspectors of New York City.

'92.

Mortimer L. Bristol has been very sick during the past six weeks with

typhoid recovery increase girl.

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Frank tecture Boston, Chas. Patten b Georg Police J

Chas. Theolog S. F. recently superint John bank in Alval for seve Jersey, State H

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typhoid fever but is now on the road to recovery. His family has recently been increased by the addition of a little girl.

William R. Butterfield has been on the campus recently.

Mellen E. Farrington has been on the campus recently.

George Maguire is in Waltham, Mass.

Charles M. Randlette will study medicine at Dartmouth this winter.

Frank S. Tolman has been on the campus recently.

Ex-92.

Frank A. Bourne is studying architecture at the Institute of Technology, Boston, Mass.

Chas. E. Cobb is at work on the Patten branch of the B. & A. R. R.

George F. Rich has been appointed Police Judge in Berlin, N. H.

'93.

Chas. P. Kittridge is studying at the Theological Seminary, Newton, Mass.

S. F. Rowe has been on the campus recently. He has the position of night superintendent at the Lincoln pulp mill.

John Webster has a position in a bank in the State of Washington.

Alvah H. Jordan, who has been sick for several weeks, has returned to New Jersey, where he has the position of State Horticulturist

Ex-'93.

Timothy R. Atkinson is Chief Engineer on the Seabiscuit and Moosehead R. R.

Herbert C. Foss is working for the Maine Central R. R.

Charles I. Haynes has been on the engineering force of the Shore Line R. R. this fall.

Chesley M. Johnston is working for the City of Boston.

John R. Morris is keeping a grocery store on the corner of Springfield and Washinton streets, Boston.

Harry O. Robinson is practicing Civil Engineering in Everett, Mass.

Ralph K. Smith of the staff of the Boston Journal and Miss Violet E. Houghtaling of Elmira, N. Y., were married on December 14, at the residence of the bride's mother, Mrs. Rose Houghtaling, 223 Walnut avenue, Elmira. Roy Evans Smith, brother of the groom was groomsman and Miss Gertrude Houghtaling, sister of the bride, acted as bridesmaid. Mr. and Mrs. Smith will reside at 29 Batavia street, Boston, Mass.

George W. Freeman is a laster in a shoe factory, Haverhill, Mass.

'94.

Frank C. Bowler has been employed on the survey of the Shore Line R. R.

Edward H. Cowan is working on the survey of the Seabiscuit and Moosehead R. R.

Leroy T. Durham is working for the Boston and Albany R. R. His address is 115 Warren street, Roxbury, Mass.

Charles E. Gilbert is working in the pulp mill, Lincoln, Maine.

George H. Hall is draughting for the Builders' Iron Foundry, 497 Washington street, Providence, R. I.

Wallace H. Jose's address is 19 Cottage street, Cambridgeport, Mass.

James E. Harvey and James M. Kimball are taking post-graduate courses at M. S. C.

Henry V. Starrett is engaged in market gardening in Warren, Me.

J. H. Ricker and G. W. Rumball have purchased the works of the Eyelet Tool Company at 70 Lincoln street, Boston, and will continue the business. They manufacture eyelet sets, leather punches, etc.

Herbert Murray's address is 9173 Hayes street, San Francisco, Cal.

George H. Cowan was on the campus Feb. 7. He has finished his work at Good Will Farm.

Edward B. Wood's address is 19 Cottage street, Cambridgeport, Mass.

'95.

Harold S. Boardman is studying at the Massachusetts Institute of Technology.

Alfred H. Buck was on the campus recently.

Isaac G. Calderwood's address is 177 Pleasant street, Malden, Mass.

Charles A. Frost was on the campus recently.

Oscar L. Grover and Earl C. Merrill are doing civil engineering work in Malden, Mass.

Melville F. Rollins has been working on the Shore Line R. R. survey this fall.

Charles D. Thomas is working in Taunton, Mass.

Albion Moulton is foreman in the Steel Works of the McLowney Steel Company of Philadelphia, Pa. His address is 3,330 North Fifth street, Philadelphia, Pa.

F. L. French is working for the Eyelet Tool Company, 40 Lincoln street, Boston, Mass.

Ex-'95.

Charles W. Noyes is practicing law in Boston. He is in the office of Hon. Louis C. Southard, 27 School street.

Ex-'96.

Fred C. Dole is at the Boston Dental School.

F. L. Holmes has been working on the B. & A. R. R. survey this fall. He is now in Olamon.

Marcus L. Urann of Foxcroft and Miss Agnes Coburn of Holden were married recently. M. L. Urann has been elected President of the Law Students' League of Piscataquis County.

Nathan E. Goodridge is a machinist in the Webster Paper Mill, Webster.

Arthur N. Smith is working for the Portland Machine Company, Portland, Maine.

Harold M. Wilder is attending the Lawrence Scientific School, Cambridge, Mass.

Percy F. Morse is an electrician on the Metropolitan line between New York and Portland.

Ex-'97.

William N. Fowler is working for the United States Rubber Company, New York City.

Seth H. Savage is in charge of an excelsior mill, Sullivan Square, Charlestown, Mass.

With the November issue the *Tuftonian* comes out as a monthly literary magazine, while the news division is to be continued as the *Tufts Weekly*. In an editorial concerning this change the aim is stated to be—"to present the best literary productions of Tufts students and to stimulate literary interest and activity among them." A magazine of this nature could be of almost inestimable advantage in a college if the students realized and availed themselves of the opportunities which it would offer for acquiring a readiness and grace of expression. The great trouble is, however, that the great majority (in fact almost a unanimity) of the students fail to realize the advantages derived from submitting contributions to their college paper and so "don't."

In the Christmas number of the *Pratt Institute Monthly*, two artistic pages contain a "Carol for St. Thomas of Canterbury," which is transcribed from an old manuscript of the fifteenth century and is finely illustrated.

TO THE ALUMNI!

The ad. which has occupied this space has been a source of much profit to the advertiser. How? By the fact that nearly all the former students of M. S. C. have sent ten cents and received the SOUVENIR ALBUM of Old Town and Orono, containing views of all the college buildings and campus. 56 views for only a dime. Address

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"Double-fires" is the title of a sketch in the *Bowdoin Orient* of Dec. 18, which has somewhat of the uncertainty of ending that appertains to "The Lady, or the Tiger?" and stories of that genus. However, in this case the premises are a little more clearly defined, so that an approximate conclusion can be derived and the suspense isn't "so awful."



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(Signed) FRANZ VOGT, Individual Judge.

Approved: H. L. KIMBALL, President Departmental Committee.

(JOHN BOYD THACHER, Chairman Exec. Com. on Awards.

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