

The Tech.

VOL. XI.

BOSTON, NOVEMBER 12, 1891.

NO. 4.

THE TECH.

Published on alternate Thursdays, during the college year, by the students of the Massachusetts Institute of Technology.

BOARD OF EDITORS.

FREDERICK HOPPIN HOWLAND, '92, *Editor-in-Chief.*
ALLEN FRENCH, '92.
CHARLES HENRY MUHLENBERG, '92.
RALPH HAYES SWEETSER, '92.
ALBERT FARWELL BEMIS, '93.
ROY HAMILTON BEATTIE, '93.
FREDERIC WAIT LORD, '93.
ALBERT BRONSON PAYNE, JR., '93.
HARRY LAWSON RICE, '93.

ALLEN FRENCH, *Secretary.*

HARRY NYE WILLIAMS, '92, *Business Manager.*
CHARLES REAY KNAPP, '94, *Assistant Business Manager.*

Subscription, \$2.00 per year, in advance. Single copies, 15 cts. each.

FRANK WOOD, PRINTER, 352 WASHINGTON STREET, BOSTON.



SINCE our last remarks upon this subject, it is highly gratifying to all of us to note the renewed interest that has sprung up in football.

Over forty men are on the practice field daily, and much excellent material is being developed. The only subject for regret now appears to be that the same men do not turn up regularly, which means, of course, a loss in team-work training. It would have been better if this number had appeared five weeks ago, but it is by no means too late now. Such material as is being developed is never wasted—no one can tell when we may need it badly. Thanks to this improvement, we can confidently predict that we have seen our last defeat in this season's championship series, and that is by no means a record to be ashamed of, considering our early reverses.

We still feel called upon to condemn the small attendance at the game Saturday—there

should have been three times as many present. But those who were there deserve the highest praise for the enthusiasm they displayed—the old Tech. cheer rang out clearer and louder than it has for many a day. And the plucky up-hill work of our crippled team was enough to rouse anyone to the highest pitch of enthusiasm.

To pass from generalities to particularities, we wish to commend the action of two of our representative Tech. men, Messrs. Noblit and Andrews, in their efforts in coaching the football team.

These gentlemen, both of whom were seriously injured while playing, have let no opportunity pass to help the team in this way, and we only wish that their excellent example would be followed by other much older football men who are perfectly able to do so.

At all the other colleges, men who have played on their 'Varsity eleven never allow their interest in their representative team to lag, and after graduation continue to give the new players the vast benefit of their experience and advice.

With us it is sadly the reverse—once off our team, and we seldom or never see or hear of a player again, no matter how good his past record. And lacking a true coach, as we do, this loss is a keen one, which makes the praiseworthy efforts of the two gentlemen above referred to all the more apparent, as well as valuable.

BULLETIN boards are an excellent institution when properly cared for and put to their proper uses. But the condition of the different Institute boards, both in the Engineering and Rogers buildings, is to be condemned.

In the Engineering building the boards are covered with announcements of examinations and changes which took place a month ago, while recent notices of importance are obscured by these now utterly useless scraps.

The boards in Rogers building are in no better condition. On this account notices of importance, mingled with so many others, often fail to catch the student's eye, and the efficiency of the boards become unnecessarily small.

As the bulletins are for the good of the students, as well as for the convenience of the Faculty, we think this condition of things should not exist, and we hope the Secretary will adopt some system of removing notices after their usefulness is gone.

And why is there no general bulletin board in Rogers corridor for the use of the students at large? If it is because such an article would mar the good appearance of the walls, it may be held that the very absence of the board is the cause of much untidiness. Notices of this sort and of that are pasted here and there on the first convenient place that offers, until the surrounding walls are dotted here and there with bits of paper. Why cannot a special place be allotted for such papers?

If it is said that such a place is unnecessary, a single glance at THE TECH bulletin board will convince the inquirer that all available parts are well occupied by notices. It is true that THE TECH should be more used as a medium between the notifier and the notified. But coming out but once in two weeks, it does not meet the wants of those who must reach the students within a day.

The cost to the Institute of such a board should be but slight. While it is true that the Faculty or Corporation can materially aid us in this, the initiative must be taken by the students.

THE editors of THE TECH find it necessary to repeat the instructions to contributors that have so often appeared in these columns,

viz. : Never to write on both sides of a sheet of paper, and never to neglect to sign your name to your contributions, no matter what they be.

All communications should be placed in THE TECH box in Rogers corridor or that on the office door, Room 30, Rogers. Failure to observe *all* these instructions prevents the acceptance of matter in all cases.

THE Harvard-Yale football game has been set for Saturday, November 21st. This has been done since the convention of the Eastern Intercollegiate Football Association, when Tech. was scheduled to play Dartmouth on the same day as the above. As is quite evident, both on account of the impossibility of a good audience or representative teams, it would seem best that our game should be played at another time.

The football management has therefore been able to arrange for the playing of this game on Friday, November 20th, the day just preceding the day of the Harvard-Yale game. Game will probably be called about quarter past two, though the time will be definitely announced later. Let everybody be on hand to cheer the team on to victory, for this is a game which we must have.

IN comparing the English system of athletics with the American, an Englishman recently said that the great fault of the latter was that it left nothing whatever for the "duffer" to do. In England every man in a college took part in the college sports, while in the American institutions everything was becoming so specialized that the ordinary man who could not run a hundred yards or play football in a scientific manner, but who still desired exercise for the sake of the good it could do him, was either shamed out of his modest attempts in one direction or denied the means to accomplish them in another. This criticism is doubtless much overdrawn, and yet there is

to-day in all of our colleges a large number of men who are 'duffers' in athletics in that they have no specialty. Harvard recognizes this class through its gymnasium, its tennis association, and its Weld Boat Club. Here at Technology, we cannot expect as yet a large gymnasium, and a boat club like that of Harvard is also an impossibility, but we can have the tennis and would be glad to have it, as the membership of the tennis association has always shown. No game is like tennis in affording equal amusement both to the expert and to the indifferent player, and for this reason it is becoming more and more each year a typical college sport, and the college sport which awakens the greatest athletic interest in the ordinary run of the college men.

It is to be much regretted that the Technology Tennis Association has not succeeded in opening the courts this fall. The fault, however, does not lie with the management, but wholly in the fact that the material with which they have to deal is utterly inadequate to our needs. Grass courts at their best are largely dependent on the weather for their usefulness, and, moreover, even under favorable conditions, our grass courts have been so poor that many of our players have sought their tennis elsewhere. The policy of our Faculty is, as is well known, to do nothing beyond merely countenancing the athletics in the Institute. They can scarcely expect however that the Tennis Association will ever be in a position to make the needed improvements itself, and we sincerely hope that they will undertake the matter themselves and not allow so important a branch of athletics to die out at the Institute.

WE would call the attention of our readers to the fact that within a very short time it will be too late for the editors of "Technique" to receive any outside contributions. Some seem to have the idea that the editors are to do everything themselves and would

not receive outside ideas or opinions if they were presented. Some seem to have written for "Technique" and yet remain waiting to be formally asked before they make known their attempts or hand them in to the Editor-in-Chief.

"Technique" should represent everything in Tech. life which is not made sober by being given a place in the catalogue. To accomplish this end in the best manner and to sustain and improve the reputation we have already made, let every man think if there is not something that he would especially like to see appear in the annual, and suggest it, or better, write it up himself and hand it in, having first found whether or not the article would be considered if produced. It is in this manner that even a greater interest in the book than exists would be awakened while the editors would be materially aided in their work.

COMMUNICATIONS.

The Editors do not hold themselves responsible for opinions expressed by correspondents.

BOSTON, Nov. 3, 1891.

TO THE EDITOR OF THE TECH:—

FOR the benefit of those interested in football I submit the following statement:—

Received of Mr. Weiss	\$363.75
Gate Receipts, Collections	650.00
Received at Harvard, Andover, Fall River	90.00
	<u>\$1,103.75</u>
Dartmouth and Bowdoin Forfeitures, \$50 each	\$100.00
Doctors' Bills	125.00
Footballs, Goods	150.00
Coaches	100.00
Traveling Expenses	225.00
Rent S. E. B. B. Grounds	150.00
	<u>\$850.00</u>

This is only an approximate account, as all collections and bills have not yet been received.

E. P. GILL,
Treas. M. I. T. Football Asso.

In Memoriam.

THE death of Mr. Schroeter, '90, was an exceptionally sad one. He was one of the most promising young men Technology has ever sent forth into the world, possessing those qualities of pluck and determination that we Americans feel so justly proud of. As his instructors long ago discovered, he had within him the stuff that makes the man, while those who knew him will recall the characteristics that made him a welcome and congenial companion on all occasions. And we who have recognized these qualities, join with his classmates in expressing the deepest sorrow for his untimely death.

The following resolutions from the class of Ninety have been received:—

WHEREAS, God in his wisdom has deemed it best to remove from our number Augo Elmer Schroeter:

Resolved, That the Class of '90, Massachusetts Institute of Technology, has thereby lost an honored and esteemed member; and although we are widely separated, yet do we meet, in thought, to mourn the loss of our classmate.

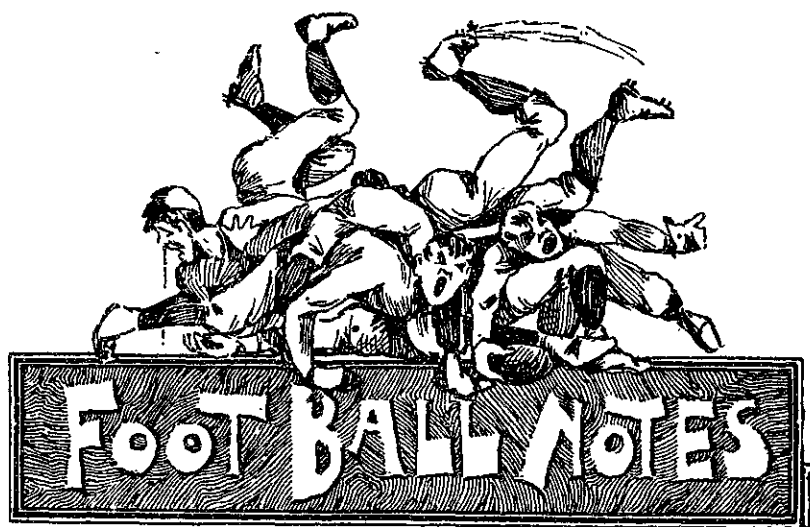
Resolved, That copies of these resolutions be sent to the family of the departed, and to THE TECH.

A. W. WOODMAN, *President*.

GEO. L. GILMORE, *Secretary*.

BOSTON, MASS., Oct. 29, 1891.

The *Brunonian* this year offers two prizes for verse: a prize of ten dollars for the greatest number of contributions published before April 1, 1892; a prize of five dollars for that contribution published before April 1, 1892, which in the judgment of a committee shall possess the greatest merit. The competition is open to all undergraduates of Brown University except members of the *Brunonian* board.



Tech., 10; Tufts, 6.

TECH. beat Tufts by a score of 10 to 6 on the South End grounds in a game that was characterized from beginning to end by a great amount of unnecessary talk, while the Tufts people so far forgot themselves as to accuse Mr. Noblit, the referee of the first half, of unfairly holding the first half five minutes over time. Any further comment is unnecessary. In the second half Mr. Noblit (who was now umpire and Mr. Edgerly referee, the change having been made to suit the Tufts captain) took the ball away from Tufts for holding and later disqualified the Tufts captain for unnecessary play; this brought down more wrath from Mr. Russ, and he withdrew his men, an act our opinion of which has before been stated in these columns. But Tufts did not get the worst of the bargain, by any means, for Mr. Edgerly, an ex-Tufts man, was not exceptionally well versed in a knowledge of the rules of football.

Tech. made two touchdowns the first half and Tufts one. Only fifteen minutes were played of the second half.

The teams were as follows: Tech.—rushers, Gilbert, Simonds, Taintor, Harvey, Johnson, Beattie, Kales; quarter back, Thomas; half backs, Dearborn, Boyd; full back, Batchelder. Tufts—rushers, Dunham, Russ, Lambert, Lane, Robinson, Burlington, Stround; quarter back, Clarke; half backs, Foss and Aldrich; full back, Ward.

Time, 50 minutes.

Tech., 14; Amherst, 24.

TECH. was defeated by the Amherst eleven under Captain Lewis, on the South End Grounds, October 31st, by ten points.

Our eleven played a splendid uphill game against great odds. If Clarke had only had the support in the first part of the season that he has had lately, the story might have been a different one; even as it was, Amherst found no mean adversary in our eleven. The number of reverses received by our team within the week was enough to have disheartened most men, but Clarke proved himself a worthy exception, and played the best game he has put up this year.

Dearborn, our usual half back, was disabled by an unfortunate accident to his knee, and Gilbert is at present in the hospital. The loss of these two men, we might say, almost put us out of the game; we had little chance without them.

Tech.'s team work was very fair, and at points it was especially good, our men holding the Amherst line beautifully at several critical points. Our weak point was left tackle and end, and although Taintor and Green did the best they could, Amherst made all of her touchdowns around that end. Tech. is vitally weak in blocking, and lost much ground for that reason, while to make it doubly hard for our men, Amherst blocked finely. The cheering was vastly better than usual. The average Tech. man is certainly to be pitied, however, for only about four hundred turned out to see the game, many of those being graduates. Why cannot each man do a little work himself for the benefit of the team, instead of expecting some one else to do it for him?

Go out and practice, or help to cheer,—there are plenty of things to do, and no one can be at a loss for ideas.

For Tech., Clarke put up a brilliant game, and did not allow his energy to flag for a moment; his passing was not always the best, but he added very greatly to the final score

by his splendid work, both in captaining and playing. Johnson also played a magnificent game, his tackling being the feature. Kales on the right end played wonderfully well, as was shown by the way the Amherst backs fought shy of his end of the line. Harvey and Beattie also did great work in the rush line, but cannot fill other places besides their own.

For Amherst, the rushes of Gould were telling, and when Ewing was hurt and Jackson substituted, Amherst had two backs hard to beat and about as hard to catch. Sims and Baldwin played a very good game in the line.

The teams lined up at 1.50 P. M., Tech having the ball and gaining eight yards on the V. Boyd carried the pigskin four yards more, Crane following with a very pretty run of ten yards, but here Tech. lost the ball on four downs and Gould went around the end for fifteen yards. Amherst fumbles, and Clarke secures the ball, which by efforts of Crane and Boyd is carried thirteen yards up the field. Tech. again lost on four downs and Amherst by magnificent work carried the ball by repeated rushes to Tech.'s 3-yard line, but could advance it no farther and lost it on four downs; Crane kicked, Gould caught and made three yards before he was downed; again Amherst could not advance and Crane again kicked. Pratt fumbled and Crane fell on the ball. Batchelder was now tired and could make no headway, and the ball again went to Crane, who ran with it twenty-five yards before being tackled; Clarke now tried the criss-cross, but no gain was made and Crane kicked. Pratt caught well, but was not allowed to run, being finely tackled by Kales; Gould now made five yards which was followed up by three yards by Pratt and the ball went to Tech. on four downs; Amherst soon got the ball on a fumble and Gould rushed it over Tech.'s line for a touchdown, from which Pratt kicked the goal.

Score, Amherst 6—Tech 0.

For the next ten minutes the ball was kept in the middle of the field. Ewing being hurt, Jackson took his place. Amherst now pushed Tech down the field and Gould made a run around the end and over the line for the second touchdown, from which Pratt again kicked a goal. Score, Amherst 12—Tech 0. Time was soon called with the ball on Tech's 45-yard line.

Second half. Amherst started the V and made twenty-five yards by sending Pratt around the end; Gould and Jackson made short rushes for fifteen yards and then the ball went to Tech on four downs.

Green was hurt and Allen took his place. Crane now made five yards and Johnson and Batchelder made fifteen more, and on third down Crane kicked, Pratt fumbled, Kales fell on the ball, and Batchelder carried it over the line, making Tech's first touchdown. No goal. Score, 12-4.

Amherst now went through Tech's line with ease and in five minutes had scored another touchdown. No goal; Score, 16-4.

Here Tech made ten yards on the V and Boyd ten more through Amherst's line. In the next rush, the ball was fumbled and Taintor secured it, running thirty-five yards over Amherst's line. Crane kicked the goal. Score, 16-10.

Amherst had no trouble in rushing the ball down the field, and made two touchdowns in fifteen minutes. Score, 24-10.

With five minutes to play Crane made a beautiful run of thirty yards and a touchdown. No goal. Score, 24-14.

Time was soon called with the ball in Amherst's territory

The teams lined up as follows: Amherst, rushers, Upton, Baldwin, Hess, Lewis, Penny, Alexander, Raley; half backs, Pratt, Ewing, and Jackson; full back, G. Pratt.—Tech. rushers, Kales, Johnson, Simons, Harvey, Beattie, Taintor, Green, (Allen); half backs, Batchelder and Boyd; full back, Crane.

Referee, J. A. Cranston, Harvard; umpire, J. C. Corbett, Harvard.

Professor Van Daell was at the game, with that interest in athletics which he has always manifested.

T. W. Sprague, N. Durfee, G. Taintor, E. F. Cunningham, C. Hammond and A. Walker were among the spectators, and were heartily welcomed by their friends at Tech.

Considering the number of delays in the game, it was well that it began as early as it did.

Tech. played a sandy, up-hill game throughout, and merited the respect of all the spectators. It is unnecessary to add that they received it.

Williams, 30; Technology, 0.

THE team lined up at Williamstown for their second championship game on an exceedingly poor field. The ground had been frozen, but thawed out in the morning, so that by two o'clock it was soft to the depth of three inches, and exceedingly slimy and slippery. This was the principal disadvantage to our team, which was already crippled by the absence of Gilbert, Dearborn, and Crane.

There was a large number of Williams men, and perhaps a dozen spectators sporting Technology colors, at the sides of the field. The day was a good one, neither cold nor hot. The sun was across the field, giving no advantage to either team.

Williams proved too strong for our team, especially in the number of tricks. The criss-cross was the most successful, and though our men were on the lookout for it, and stopped it several times, Williams made repeated gains by it. Williams used this trick most successfully at the opening of the second half, by combining it with their open formation.

The game was called at 2.03 P. M., with the ball in Technology's possession. Five yards were made on the V, but the ball was immediately lost on four downs. By Bothne's

off side play Tech. again got the ball, but was forced to kick. For ten minutes more the ball remained at the center of the field, changing hands twice. Then Williams, by bucking the center, and by repeated runs around the end by Street, brought the ball to the 20-yard line. Here the criss-cross was tried for the first time, and Street carried the ball across the line. Brown failed at goal. Time 2.18.

Technology now took the ball, and carried it rapidly from the center to the 10-yard line, by sending Boyd and Simonds through the center, and by a good run of fifteen yards by Clinton. But the ball was lost on off side play. It was kept at the end of the field, however, and Williams was forced to kick. Lafayette spoiled a fair catch, giving M. I. T. five yards. The ball was lost, and gained again, each time by off side play, and Batchelder kicking, the ball was caught on Williams' 5-yard line.

Williams carried the ball to the 30-yard line, where it was lost to us for a moment, but again gained. The ball was carried to Tech's 40-yard line, whence on the criss-cross Garfield made a touchdown. No goal. Score, 8-0; 2.38 P. M.

By the V and two good runs by Simonds Tech. made some ground, but lost the ball on four downs. By rushes and a kick the ball was carried into Tech.'s territory, where the ball was lost to Williams, and shortly after a touchdown was made. Brown again failed at goal. Score, 12-0.

After a little more play, time was called, the ball still at the center of the field.

Second half. Fargo in the first rush carried the ball to the 25-yard line, from where Garfield and Street gained, a touchdown being made in ten minutes. No goal. Score 16-0.

Technology made ten yards, but was forced to kick. Williams made rapid gains; Batchelder and Clinton stopped a run by Nelson, but Clinton was hurt, and forced to leave the field, Nash going on. Williams again gained,

and at 3.30 Street carried the ball over the line. No goal. Score 20-0.

On the V, and on runs by Johnson, Tech. carried the ball to the 40-yard line, where it was lost, but gained by off side play. Batchelder was forced to kick. The kick was returned and fumbled, Williams getting the ball. It was rapidly carried to the 4-yard line, and Fargo went through the center for a touchdown at 3.42. Brown kicked a goal. Score 26-0.

Tech. gained on the V, but lost the ball on four downs. Williams kicked, the ball going outside, and being given by the referee to Williams. Garfield made a long run on the criss-cross, and was well stopped by Batchelder at the 5-yard line. Street carried the ball across the line at 3.47. Brown again failed at goal. Score 30-0.

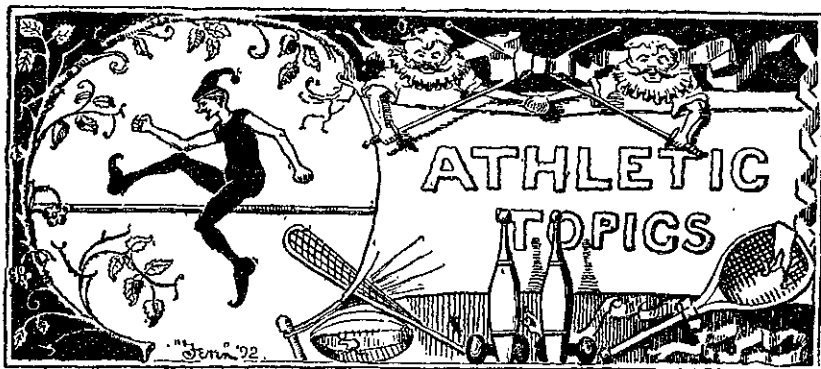
There were a few minutes left of the half, but the team having to catch the train, the game was called. The good work for Williams was done by Street, Garfield, Bothne, Fargo, and Nelson; for Technology by Clarke, Kales, Clinton, and Simonds.

The teams lined up as follows:—

Tech.—rushers, Kales, Johnson, Beattie, Harvey, Morse, Clinton, Burrough; quarter back, Clarke; half backs, Simonds, Boyd; full back, Batchelder. Williams.—rushers, Enris, Townsend, Sawtell, Allen, Bothne, Nelson, Lafayette; quarter back, Brown (capt.); half backs, Garfield, Street; full back, Fargo.

Referee, first half, McKean, Williams; 2d half, Hammond (Harvard); umpire, Ruggles (Rensselaer).

It is reported that the King of Siam is to send six young men of his nation to be educated in Pennsylvania. Generous provisions are to be made for the maintenance of the young Asiatics, as they are to be allowed a stipend of \$5,000 each out of the national exchequer.



The annual meeting of the Amateur Athletic Union will be held in the Astor House, New York City, on Monday, November, 16th, at 2 P. M. F. W. Lord, '93, will be present as one of the four delegates representing the N. E. A. A. U.

We give below the B. A. A. fixtures, with events, up to January 1st. There will also be a sparring meeting in Music Hall some time in December. Tech. men have always done creditably at the handicap meetings on Irvington Oval, and we hope for a continuance of the good work in the Club's gymnasium. To save trouble, entry blanks for all the games have been placed in the cage, where they may be obtained by applying for them there.

November 26th, second annual open Thanksgiving handicap cross-country run at 10.30 A. M. Entries close November 19th.

December 2d, open handicap games in the gymnasium at 8 P. M. Events,—15-yard dash, fence vault, running high jump, putting 16-lb. shot. Entries close November 30th.

Entries for all the above events must be made out on the N. E. A. A. U. entry blank. The entrance fee for all events will be twenty-five cents per man. First, second, and third prizes will be given in each event.

Special Prizes: A silver medal will be given to the contestant making the fastest time in the cross-country runs of November 14th and 26th. A bronze medal will be given to every contestant in the Thanksgiving run who finishes inside the record for the course.

The course for all cross-country runs will be the regular Boston Athletic Association course, as follows (about seven miles): Starting at the Club House, Exeter Street, to Huntington Avenue, West Chester Park to Falmouth Street, across Back Bay Park to gate house on Brookline Avenue, to Chapel Station, along Colchester Street, Sewall and Longwood Avenues to Beacon, to top of Corey Hill (report to checker here). Turn to right into fields, down Corey Hill across Winchester and Harvard Streets, through the old Hawthorne Grounds to the corner of Babcock and Freeman Streets (report to checker here); along

Freeman Street to the end, through field to corner of Carlton and Beacon Streets, along Beacon through Back Bay Park, down Boylston Street to Club House.

Admission to the Club House on the days of games will be by ticket only. Each person making an entry *must* send his address, and a ticket will be sent admitting himself and trainer to the house. Contestants must use the elevator to and from the dressing rooms, which will be on the fourth and fifth floors, and will not be allowed in any other portion of the house. Prizes will be distributed in the Committee Room, sixth floor, after the games. Make all entries to H. S. Cornish, Athletic Manager.

Following are the scores of the football games so far played in our series: Boston, Saturday, October 31st, Amherst, 24, Tech., 14; Williamstown, Saturday, October 31st, Williams, 60, Stevens, 0; Hoboken, Wednesday, November 4th, Dartmouth, 32, Stevens, 12; Williamstown, Saturday, November 7th, Williams, 30, Tech., 0; Hanover, Saturday, November 7th, Amherst, 14, Dartmouth, 14.

The Executive Committee have found it impossible to open the courts for tennis this fall, and the tournament has therefore been postponed till spring. There will be no dues for April.

The Executive Committee of the Athletic Club held a meeting November 5th, to arrange for the coming indoor games. It was decided to hold the annual closed indoor meeting Saturday, December 5th, in the gymnasium. After a lengthy discussion it was decided to have the following events: 35-yard dash, running high jump, putting 16-lb. shot, rope climbing, 35-yard hurdle race (three flights, 2 feet 6 inches high), standing high jump, fence vault (handicap), running high kick. The tug of war was omitted, as the general opinion is averse to it. Harvard and many of the other large colleges are dropping it, on account of the injurious effects to the participants. It was decided to use the low instead of the high hurdles, as it was thought that, by this arrangement, a greater number of entries could be obtained.

W. R. Kales, F. W. Lord, and F. C. Green were appointed as Game Committee, and to arrange all necessary details.

The subject of holding a sparring and wrestling meeting was discussed, and it was voted to hold such a meeting Saturday, December 19th. No arrangements have been made as yet, but Messrs. Kales, Buchholz, and Noblit have the matter in charge.

An important change was made relative to scoring for the Class Championship Cup. Heretofore only first and second places were counted towards the cup, but henceforward third place will also count. The new system is as follows: 5 points for first place, 3 points for second place, and 1 point for third; records to count 2 points in addition. Thus, by the Class Team race, which was contested at the South End Grounds, '93 places 5 points to her credit, and '92, 3 points; '94's third place in the event will not count, as one of the men who ran (Lawson), was '95. At the sparring and wrestling meeting no admission will be charged, but only members of the Athletic Club will be admitted. The entries for both meetings will close the Monday previous to the day on which the games take place. Entrance fees are twenty-five cents for members of the Athletic Club, and fifty cents for non-members. Make all entries to the Secretary of the Club, F. W. Lord, '93.

The Manhattan Athletic Club will hold its annual indoor games at Madison Square Garden, Saturday, November 28th, at 8 P. M. Several Tech. men will probably compete. Among those most likely to enter are Crane, Boss, Payne, Batchelder, Dearborn, and Lord. Following is the list of events, and other information pertaining to the games: 440-yard run, novice, scratch, and the following handicap events, 70-yard run; 70-yard hurdle race, 3-foot-6 hurdles; 220-yard run; 440-yard run; 1 mile run; 3 mile run; running broad jump; running high jump; pole vault for height; 1 mile walk, 1 mile safety bicycle race. The Manhattan Athletic Club Standard Gold, Silver, and Bronze medals will be awarded to first, second, and third in each event. Entrance fee fifty cents for each event. Entries

close with S. J. Cornell, Captain and Chairman Athletic Committee, Madison Avenue and 45th Street, November 21st. No entry accepted except upon an M. A. C. entry blank, which can be secured of the Secretary of our club.

A Football Formula.

The square of x by 29 ,
That multiplied by t ,
With other curious phantasies,
All over square of V .

This prob. had long outmastered, quite,
My analytic wits,
Till just a glimpse of x would give
Me paralytic fits.

Professor R—, a studious man,
Had labored long in vain;
The value of the V I failed
To see, the rest was plain.

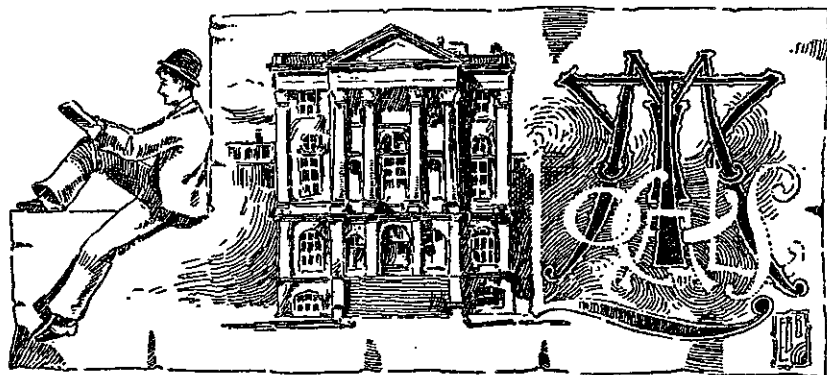
Disconsolate, unto the field
I went, our team to see.
We won! Oh, joy! I quickly saw
The value of the V .

Each student at Phillips' Exeter Academy has been obliged on registering to file a statement, signed by himself and his parents, to the effect that he will not join or encourage in any way any secret society or social organization not approved by the Faculty, except with the consent of the Faculty. This action of the governing board is the direct cause of the hard feeling now existing in the academy between Faculty and students.

The professors of Civil Engineering, Agriculture, and Horticulture at Cornell, have been directed to prepare a plan for putting the roads of the University in the best possible condition, the object being to arrive at the best method of road building.

Memorial Hall at Harvard, by a new system of service, caters to 800 students instead of 500, as formerly.

The treasurer's report of the Harvard Co-Operative Society shows a net profit of \$4,763.74.



Hard luck.

A grind.—Mortar and pestle.

A. W. La Rose, '89 was in the city last week.

The life class at Cowele's Art School starts up this week.

'Tis a hard wurruld, but it's a poor heart that niver rej'ices.

TECH is the coming journal. Out Thursday, Nov. 26th, '91.

G. O. Draper, '87, is engaged to Miss Duncan, of Lexington, Ky.

The Sophs. had their first exam. in Physics last Friday, November 6th.

President Walker returned last Friday (October 30th) from a visit in Chicago.

H. W. Tyler has been reappointed Secretary of the Faculty, vice J. B. Henck, Jr.

We hear that the friends of S. S-t-o-, '92, define a joke as "Something Sut hears but can't see."

All persons wishing to join the Chess and Card Club should apply to O. F. Sager, Course II., '92.

Those four prize cups of '93's running team have nothing to do. What's the matter with a little ale to '93.

Professor Carpenter is to deliver a lecture or lectures on the comparative English and American Literatures.

J. W. Cartwright, '89, gave us a call a few days ago. He still has his "Tech." key hanging on his chain.

W. M. Beamen, '89, is in the city on a visit. He comes from Maine with a summer's tan; also a well-cultivated beard.

Read the Athletic Topics. The Executive Committee is hustling, and some great opportunities are offered for our athletes.

Captain Herrick of Tech.'s victorious eleven of '88-'89 was in town this week. He regretted his inability to coach the eleven.

Gilbert, our valued football player, is reported to be doing well at the hospital, and will soon resume his position at left end.

Petitions have been handed in to the Secretary asking that the lights in the Engineering building be used until five in the evening.

Everybody plan to be on hand at the South End grounds, Friday afternoon, November 20th, to see Tech. win from Dartmouth.

The Junior Chemists had their photograph taken on top of the Nichols Building recently. President Walker was caught in the group.

All interested in the Twentieth Century Club are requested to meet in Room II, Rogers, at 4.15 P. M., on Monday, November 16th.

The Junior Electricals were recently shown how "straight jags are often lateral." We consider any illustration of that fact superfluous.

Wanted: Information by Hogan, '93, about the radial component of tangential momentum. "Applied" is getting in its work already on the Juniors.

No tennis tournament this fall. The Association has a most unsavory reputation among the proprietors of rollers in Boston and vicinity.

Considering previous results, we should be highly pleased at the number of enthusiasts who went up to Williamstown to see the game Saturday last.

The embassadress from Russia to the Institute is again with us. We refer her essays on "The United States and Russia" to Course IX. for analysis.

THE TECH wants to match pennies with somebody. All applications should be made

to the editor-in-chief. N. B. Write only on one side of the paper.

W. B. Taylor, '94, ran in the first cross-country run held by the B. A. A. and finished fourth. He ran a very plucky race, and deserves credit for it.

Dearborn, '93, who has been confined with a very bad football knee, is out again with a stick. He will probably play in the Dartmouth game on the 20th.

There is an exceptionally interesting list of events for the coming indoor games. Silver cups will be given for first and second in each event. Everybody train!

Gorham, Noblit, J. C. Brown, Speer, Dixon, and the President of the class *ex officio*, have been appointed on '93's portion of the Senior Dinner Committee.

C. G-rr-s-n '91 (Course VI.) to *F. W. L-rd* '93: "What Course are you taking?"

L-rd: "Course VI."

G-rr-s-n: "What's that?" (*Fact.*)

The fine weather of the past few weeks is keeping the men in training outside, and the tracks are in active use. It is, however, just a "trifle gay" with nothing on but light running clothes.

One of the "slaves" employed in carting off the ashes from the Mining Laboratory is responsible for the statement that Professor Richards with his jumper on makes a "foine Irishman."

Harvey, '92, tells a good joke on himself. While watching the Freshmen drill the other morning, he was asked by Gen. Moore to be captain of a company! Harvey isn't as fresh as he looks.

Professor Cr—ss, explaining to class in Electricity the relative merits of the needle and acoustic systems: "Gentlemen, the eye becomes sooner tired looking at an object than does the ear"!!!

The Freshman-Sophomore game has been fixed for Monday afternoon, November 23d.

Ninety-five is surely wide-awake and Ninety-four should "take a brace" or they will come out behind on the 23d.

On account of the marring of the general effect of '93's first picture, as previously noted in these columns, the class again assembled on Rogers steps October 28th, to give the photographer another chance.

The class of '94 will make a big attempt to come out first in this year's tug-of-war contest. Though this branch of athletics imposes a great strain on the men participating, it is popular and interesting.

The Class of '95 held a very noisy meeting on Tuesday, Oct. 27th. Owing to the lack of class spirit it was decided to reduce the quorum to fifty. Motion was made to elect a treasurer until Thanksgiving, and Mr. Foster was chosen.

WHAT PROFESSOR WAS THIS?

C. Taintor, '93: "I'm sorry, Professor that I was absent yesterday, but I had to play football with the team."

The Professor, much interested: "That's all right,—did you win?"

The Freshmen have been considering several class yells; one of which seems to be quite original and will most likely be adopted. That little notice from the Secretary has caused the meetings to be a little more quiet, and business is now transacted rather more easily.

The football men seem to take an unnecessarily long time in getting out to the field to practice. Some evenings it is quite five o'clock and almost dark before the last man leaves the "gym." This gives but a uselessly short time of practice. Why cannot every man be on the field by 4.30?

The Architectural Exhibition last week at the new Public Library building was attended by quite a number of Tech. men as well as that of illustrations in black and white at the St. Botolph Club. The exhibition

of Mr. Walter Crane's work at the Museum of Fine Arts attracted many students interested in art.

First Civil (throwing rocks): "Why is our honored professor in Physics, like that transit?"

Second Civil ("setting up"): "Shut up!"

First Civil (with a handful of rocks): "Because he has two Cross-hairs."

First Civil is given the transit.

Second-year Civils were out Tuesday and Wednesday evenings Nov. 3d and 4th, viewing Polaris through a transit, with the idea of finding the true north. Whether they found the star or not is a matter of doubt, but they didn't lose their bearings, since several of them were lined up at the Adams House later in the evening.

The mentions awarded in the Course IV. designs submitted last month were: in fourth year, F. E. Perkins, 1st, first; G. H. Ingraham, 2d, first; Geo. Ropes, 1st, second; Theo. H. Skinner, 2d, second; F. E. Newman, 3d, second; J. F. Vining, 3d, second. In third year, F. W. Hight, 1st, first; J. S. White, 2d, first; R. J. Hovey, 1st, second; F. W. Fitts, 2d, second.

We remind the Architects that there is a constant demand for cuts for THE TECH, especially initial letters. We are all extremely tired of the cigarette fiend who has appeared with the letter S for the last eighteen months or so, and would like to have him relieved. The cut for College Notes also should afford ample suggestions for the one or two men with ideas in Course IV.

The Photographic Society held its regular annual meeting Thursday, October 29th. The officers for the ensuing year are: President, Barton, '93; Vice-President, Rice, '93; Secretary, A. H. Davis, '93; Treasurer, Moody, '92. The Society is in a flourishing condition, and expects to hold one or two exhibits this winter. All men desirous of becoming members should *apply at once to the Secretary.*

Since the Mining Laboratory became such a thoroughfare for the patrons of the lunch room, restrictions have been put upon the working costumes of the miners. The present rule is that, "the minimum amount of clothing shall be a jumper." This somewhat startling order means that a jacket or, at least, a "jumper" shall be worn over a shirt, and no such *decollete* affairs as were worn last year will be allowed.

It is very probable that Tech. will send an Athletic Team to compete in the Manhattan Athletic Club open handicap games, to be held in the Madison Square Garden, New York, Saturday evening, November 28th. The races will be run on a dirt track 220 yards in length. We wish our fellows the best success, and as the games come during the Thanksgiving holidays, a number of Tech. men will doubtless witness our team's work.

The members of '95 have finally come to their senses; their meeting of Tuesday, November 3d, was a decided improvement over previous gatherings. The question of a class yell was discussed, and it was decided to adopt the three best yells, and have them printed and presented to each member of the class. As the treasury is empty, each member of the class is to be taxed twenty-five cents. Two dollars and a half were appropriated to buy a class blackboard. The question of class colors was again brought up, and it was decided to take '91's colors. The time being up, the meeting then adjourned.

A prize essay on "The Distribution of the Moon's Heat" has lately been published by the Utrecht Society of Arts and Sciences. The essay obtained the prize of the Society in its general assembly in July, 1890, and was handed in by F. W. Very, M. I. T., '73, Course V. The research necessary was carried on by the use of very delicate and sensitive instruments, and the work itself was one of extreme delicacy and precision. Those who may be interested can see a copy of the

essay by calling upon Professor Holman. Mr. Very, of the Alleghany Observatory, has surely proved himself an honor to the Institute.

Thursday afternoon, November 5th, an eleven made up of members of the local society Nu Chi, played a match game with the Delta Upsilon team of Tufts College, at College Hill. About half the men on each team had never played football before, and had had only a week's practice. The Tufts team had the advantage of one Varsity player and three "subs." The teams were very evenly matched and the score was 4 to 4. The Tech men had the ball first, and made a touchdown at the end of the first twenty-minute half. The Tufts Team scored in twelve minutes in the second half, but failed to kick a goal. Time was called on the fourth down for Tufts, with the ball near Nu Chi's 30-yard line. The teams were as follows: Nu Chi.—rushers, P. H. Thomas, J. Atwood, H. Yoerg, A. G. Ranellett, A. H. Jameson, W. S. Hutchinson, Wells; quarter back, Sweetser; half backs, Shepherd (capt.), Clapp; full back, Thomas. Tufts.—rushers, Edmonds, Emery, Williams (capt.), Mallett, G. Arnold, Morrison, Saunders; quarter back, Flynn; half backs, Smith, L. Arnold; full back, Lawton. Referee, Mr. Doliver; umpire, Mr. Noyes.

We have received the following "verbatim" report of a model '95 class meeting from an exasperated freshman:—Freshmen meet to discuss important matters.

President: "The class will now come to order."

1st Member: "Mr. President."

2d Member: "I suggest that we——"

3d Member: "Question."

4th Member: "What's the motion?"

President: "If you will try and be quiet, we will proceed to business." (*Hearty applause.*)

5th Member: "I amend the motion to be amended."

President: "I think we had better have the Secretary read the minutes."

6th Member: "Motion before the house."

President: "It is moved and seconded——"

7th Member: "No second."

President: "You're out of order."

8th Member: "I move we adjourn."

Class *Ensemble*: "So do I."

President: "Carried."

Hall vacant.

A Mistake.

A tale I've been told
Which I will unfold;
If not very true,
You must not scold.
It is known to few.

They say: '94,
As they went out the door
Of a "Dutch" recitation,
Shut it softly, no more,
To cause a sensation.

A teacher locked in—
Oh, what a sin!—
With a Co-ed.
Outside a great din—
She blushed rosy red.

An hour had passed.
The door opened at last.
He didn't look sad;
She left him quite fast.
I'll bet he was mad!

J. R. S.

The receipts of the Harvard Athletic Association for last year were \$3,863.88, expenditures \$3,846.27, which leaves a balance of \$17.61.

Hon. F. F. Thomson, of New York, has promised Williams three new laboratories. The chemical laboratory, now being built, is to cost \$45,000. The other two are to be finished before 1893.

The first income received from the \$1,000,000 bequeathed to Colgate University last year, has been utilized by the establishment of several new professorships at the University.

A Little Game.

Bold Nathan made the ante
 ('Twas a dollar limit game)
 For fifteen calls a quarter,
 And his spouse (facetious name
 For his roommate, placid Timmy)
 Made it fifty cents to play;
 Our dark-complexioned Southerner
 Declared he'd have to stay.

As for me, my luck was with me,
 I was bound I'd have my draw,
 Though at least you'd say 'twas foolish,
 Considering my paw,
 In which the three club honors
 Were all on which to build
 My slender expectations
 For the flush I hoped to fill.

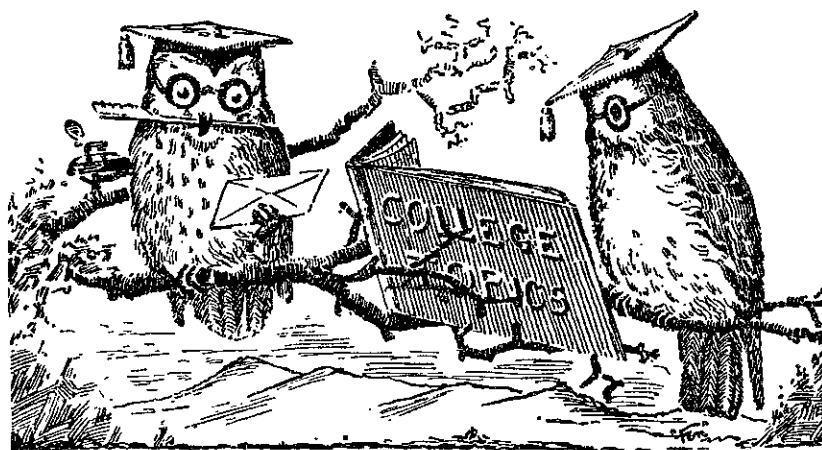
I dealt three cards to Nathan,
 While Timmy asked for one;
 One paper went to Albert,
 And I took two, for fun.

I carefully discarded
 The two I didn't need,
 Then pulled myself together
 And did a mighty deed.
 I had an awful tussle
 To keep it off my face,
 But I didn't move a muscle:
I had drawn that ten and ace.

We cast the festive chiplets
 In piles across the board,
 For Nathan has three aces
 On which to back his hoard;
 His spouse is calmly happy,
 And sits behind four eights;
 A full comes in to Albert,
 Who sweetly smiles and waits.

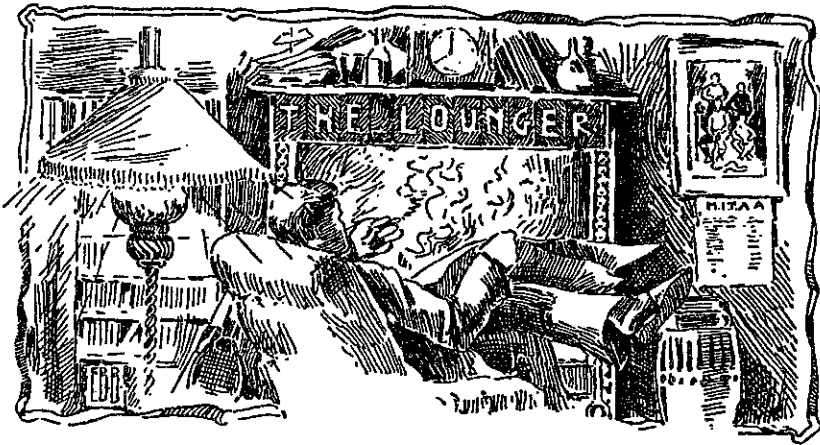
Five times I raised the limit,
 And five times Tim raised me;
 The others seemed contented
 Those raises five to see.
 But on the sixth erection
 Bold Nathan dropped his hand,
 And Albert, sadly sighing,
 Withdrew for lack of sand.

Again I raised the limit,
 And once more Tim raised that;
 I answered for a dollar,—
 My heart went pit-a-pat.
 Then Timmy, after thinking,
 Decided he should call.
 'Twas a pot of twenty dollars,
 And I'd won it on my gall.



We clip from the *Amherst Student*: The Wellesley girls have been measured and the average waist measure of the 1,100 students was found to be 24.2 inches.—*Ex.* Exactly 1,100 Amherst men have been measured and the average length of arm was computed to be precisely 28.2 inches.

A book has just been published by Lieutenant Totten, Professor of Military Science and Tactics in the Sheffield Scientific School, which will be of interest, both on account of its subject and its dedication to all college men. It is called "The Laws of Athletics and General Rules," and it is dedicated to Yale, Harvard, Princeton, West Point, and Annapolis. Lieutenant Totten says that there are two sides to athletics, and the main object of the book is to bring into prominence the practical and military side. After giving the rules of track athletics and hygiene, he comes to football, which is his main subject. The introductory chapter to this book is written by Mr. Walter C. Camp, and it gives briefly the history and development of the game. Lieutenant Totten then takes up the subject, and after giving instances of plays in a football game, he cites similar cases that occur in the art of war. Thus, by placing like cases side by side, he proves that football and the art of war are very closely related, and that an able football strategist would make an abler general. At the end of the book he also gives a list of some of the best athletic performances on record, both amateur and professional.



The Lounger received by the last mail the following letter, and begs to present it to his readers:—

“*Dear Sir:*—The student of the present day, though more capable than that of any preceding generation, finds that in doing justice to the physical man, he has little time for literary work and a thorough mastery of the sciences, and therefore his efforts in one branch or the other, or it may be both, are unsatisfactory.

“There are students in every college who enjoy literary work and those who detest it. There are those who are obliged by a tyrannical college Faculty to waste both mortal time and parental money in gorging a brain with a material that is as essentially foreign to that particular intellect as is sawdust to the human system. Therefore, in consideration of this fact, and of the work of students in their closing years of college, we have endeavored to fill a long-felt want by engaging some of the most prolific writers of the age, which enables us to furnish all kinds of literary productions at a very slight cost. Special attention paid to law, medical, scientific, and mathematical theses; lectures, sermons, and political speeches.

“Our prices are as follows:—

Essays, \$3 to \$10,	according to length, subject, etc.
Orations, \$3 to \$12,	“ “ “
Debates, \$5 to 12,	“ “ “
Eulogies, \$6 to \$20,	“ “ “
Character Sketches, \$6 to \$20,	“ “ “
Invectives, \$6 to \$20,	“ “ “
Sermons, \$6 to \$25,	“ “ “
Political Speeches, \$10 to \$30,	“ “ “
Lectures, \$10 to \$50,	“ “ “
Metaphysics, \$25 to \$75,	“ “ “

“In ordering productions, please state style and length wanted, and whether humorous, profound, imaginative, or sarcastic. As to subjects, we are usually left to our own choice, but *any* subject may

be sent in with order. Best of references from all the leading colleges in the country, and we guarantee satisfaction.

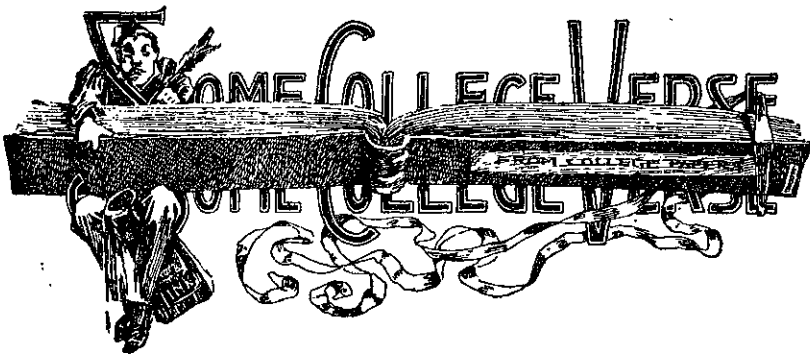
Yours confidentially,
Spaulding & Everett, Clifton, Iowa.”

The Lounger firmly believes that this will prove a Godsend to all Tech. men. If “Technique” editors need a racy character sketch of a Senior or a sizzling invective against a Sophomore, here is their chance. And Freshmen too, if behindhand on their essays, could doubtless obtain reduced rates if they ordered them wholesale. And the Lounger feels certain that if our beloved Bird should depart from the cage, n’er to return, Technology would subscribe unstintingly to purchase the best eulogy that could be obtained. Hereafter, Seniors need not worry about their theses. Fifteen dollars will save them from all trouble and responsibility.

Observe the “confidentially” with which the letter closes. It is evident that no danger is to be apprehended from a “tyrannical college Faculty.”

The Lounger congratulates all of our downtrodden, overworked students on this discovery, and hopes that all time saved by this means will be devoted to seeing more of their fellow-students.

The Freshmen have now been with us several weeks, and have doubtless by this time learned many new things that they did not know before, and unlearned as many more which they thought they knew in the most approved style. They have learned that Wentworth’s Geometry is not as solid as they thought; that the Bird is a parrot, and can talk back in several shades of sarcasm, and many other things of value. But they have not all learned as yet to distinguish between the “Technique” letter box and the large red affair which Uncle Sam puts at our disposal. You might think that they would have, but the chief editor of our annual publication will be glad to convince you that they haven’t. Or learn for yourself if you will, and watch him as he comes into Rogers some morning and skates across the marble floor to the box. Observe the smile of satisfaction that flits across his careworn features as he sees a glimmer of something white through the slot. At last! Some one has written a poem! There is genius after all at Tech! His keys fly out, the cover flies open, and the smile flies away. For it is not a poem. Oh, no, but only another letter, which the editor bears in silence to the big, red box, and which drops with a muffled thud a dirge to worldly desires.



“THE BEAUTIFUL SNOW.”

Last evening my darling and I took a drive
Through the woods where the wind whispered sweetly
and low;

Where the moon shone so bright,
With her silvery light,
And soft was the gleam of the beautiful snow.

I asked her one question as swiftly we drove,
The answer came back in tones soft and low,
But gave no delight

On that cold winter's night,
For chill was the tone of the beautiful's No.

—Brunonian.

HANDSOME.

Her hands were full, her veil not tied—
Her cheeks were rosy as the dawn.
“May I not hold your gloves?” he cried.
She answered, “When I've put them on.”

—Blue and White.

“AND THE SWINE WERE JOKED.”

When swine, possessed by devils fierce,
Ran down into the sea,
Their owners should have shed no tears,
But laughed right merrily.

There was their winter's pork in brine,
They need not sorrow sham;
But rather call their friends and dine
Upon some deviled ham.

—Brunonian.

THE FOOTBALL PLAYER.

Oh kerosene lamp, I envy your lot,
As your rising smoke I see;
You can smoke away to your heart's content.
But the captain won't let me.

—Aggie Life.

BOTANICAL.

The beech is the tree for lovers, said she;
The poplar is stately and tall,
And well I love the linden tree,
But the oak is best of all;
'Tis stronger and nobler than the rest,
Its green is of deeper hue—
Now tell me, which do you love best?
And he quickly answered, “Yew.”

—Brunonian.

ANOTHER CONTRADICTION.

Cain envied much his brother,
According to the fable—
But then it says he killed him
Because he wasn't ABEL!

—Red and Blue.

AN APPROPRIATE KEEPSAKE.

We flirted together a week at the shore,
And strolled on the beach by the light of the moon,
And whispered our love 'mid the breakers' wild roar,
And at parting he gave me a souvenir spoon.

—Brunonian.

THE RIGHT PLACE FOR THEM.

A drummer who through life had passed,
Came down to Pluto's inn at last.
He said to his host, “May it please your Grace,
But yours is the most all-firedest place
That ever offered cheer.

Your ventilation is poor, and why
Did you wholly forget your water-supply?
But worst of all, you are very unkind
To be careless of fire, when guests can't find
A fire-escape, I fear.”

Then Pluto said: “You have rightly guessed
Our fire precautions are not the best.
Our building plan I'll not defend;
But still it stands, because they send
Poor building inspectors here.”

—Brunonian.

THE JUNIOR'S REVERIE.

I wonder if she meant it:
She said that she'd be true,
And really seemed to like it,
That little kiss or two;
They tell me she's a summer girl;
I can't believe it's so;
Perhaps they're only guessing,
Or is it really so?

A summer girl?—the devil—
Whose love they say grows cold
When first the snow is falling;
It can't be I've been sold.
I hear she'll be back Sunday:
Ah, well! all is not lost;
She can't be *very* chilly;
I think there's been no frost.

A summer girl!—poor fool I,
But still I'll be prepared;
A change of tune? I'll act
As if I never cared
For her; aye, or any belle;
It may be, who can tell?
A summer girl can sometimes be
A winter girl as well.

—Columbia Spectator.