WE GUARANTEE TO MEET IN COMPETITION
any Tailoring concern in this city, in the matter of Fit, Quality, and Price.

HIBBARD, MASON CO.,
FINE TAILORING,
Dress Suits, Silk Lined, to Order, $45.
515 Washington Street, Boston.

THE HOTEL HUNTINGTON,
Copley Square and Huntington Avenue.

STUDENTS’ SUPPLIES.
Blank Books, Note Books, Drawing Papers, Pens, Inks of all kinds, Fountain Pens.

PERIODICALS AND MAGAZINES.
Writing Paper and Envelopes with TECH Monogram and Imprint Paper by the pound, at

SOUTHWELL’S,
Corner Dartmouth Street and Columbus Avenue, and 439 Boylston Street.
2d door from Berkeley Street.

OAK GROVE CREAMERY COMPANY,
DAIRY LUNCH ROOM.
445 BOYLSTON STREET, COR. BERKELEY, opp. Y. M. C. A. Building,
Where can be had Sandwiches of all kinds, Soups, Tea, Coffee, and regular Dairy Lunch.
EVERYTHING FIRST CLASS.

Pure Fresh-churned Butter, in Quarter-pound Prints, Five and Ten Pound Boxes, Pure, Fresh Milk and Cream, delivered in Glass Jars. Fresh-laid Eggs. Pure, Full Cream Cheese, American (plain), Sage, Neufchabel and Edam. All kinds of Fruit Ices.

NELSON L. MARTIN.

STUDENTS’ SUPPLIES.

Drawing Instruments and Materials of all kinds
Get the Best!—FOUNTAIN PENS.—Waterman’s is the Best.

Lowest Prices, and Finest Quality of Goods Guaranteed.
At Room 10 Engineering Building and Basement of Architectural Building.

R. J. NORMAN.
St. Botolph Hall Café,
38 St. Botolph Street,

Respectfully solicits the patronage of students of the Massachusetts Institute of Technology.

M. Dwyer.

---

Drawing Boards, Papers,
Inks, Pens, Instruments, and Fountain Pens
At Discounted Rates.

A. D. Maclachlan,
Tech Co-operative Store,
214 Clarendon St., Boston, Mass.

---

EXTRA COPIES OF
The Tech
Can be found at The Tech office,
third floor, Rogers Building, and at
A. D. Maclachlan's,
214 Clarendon Street.
Tech Co-operative Store.

---

Bookbinding
IN EVERY STYLE.
ALEX. MOORE, 3 School Street, BOSTON.

---

C. E. Richardson,
141—Dartmouth Street—141
FURNISHING GOODS, and Agent for DARTMOUTH LAUNDRY.
Orders by mail receive prompt attention.
Goods called for and delivered without extra charge.

---

J. C. Littlefield,
Tailor · and · Outfitter,
21, 23 BEACON STREET, BOSTON.

I can offer you a larger and more complete assortment than can be seen elsewhere, and at lower prices for the same qualities. Look in and examine my prices before placing your order.

GOLF BREECHES, RIDING BREECHES, AND DRESS SUITS A SPECIALTY.
DISCOUNT TO STUDENTS.

PHOTOGRAPHER
To the Class of '95, M. I. T.
Pastels, Crayons, Water Colors.

No. 146 Tremont Street,
Over Husler's.

Branch... No. 1068 Boylston Street,
Corner Massachusetts Avenue.

STANDARD CLOTHING CO.,
MANUFACTURING RETAILERS OF
HIGH GRADE CLOTHING
From both Foreign and Domestic Fabrics.
ALSO ADVANCE STYLES IN TROUSERS, SUITS, and OVERCOATS.
Full Dress Suits Constantly on Hand.

395 WASHINGTON ST., - - BOSTON, MASS.

THE
Union Gymnasium
48 BOYLSTON ST. (near Tremont).

PRACTICAL.

Complete Modern Apparatus.

Popular Classes.

Terms, $5 and $8 per Year.

BOSTON YOUNG MEN'S CHRISTIAN UNION.

Wm. H. Baldwin, Pres.

NEW + MAIL
HIGHEST GRADE LIGHT ROADSTER.
$85.

MEN'S AND LADIES' pattern .... $85
Also TEMPLAR, best medium grade Man's Wheel .... $60
ATALANTA, Ladies' Pattern .... $60
Boys' and Girls' Wheels .... $15 up

A few Shopworn and Secondhand Wheels, taken in trade, at very low prices. Bargains. $25, $30, etc.
Catalogue and Secondhand list.

WILLIAM READ & SONS
107 WASHINGTON STREET, BOSTON.
L. P. HOLLANDER & CO.,
202 and 212 Boylston Street, and Park Square.
High Grade Ready-made Clothing for Young Men,
EXCLUSIVELY OUR OWN MAKE.

We would call special attention to our very attractive lines of
Homespun and Scotch Tweed Sack Suits at prices ranging from $15.00 to $36.00.
Knickerbocker Trousers, $6.50 to $9.00.
Silk-lined Covert Coats, $24.00 to $30.00.

Frank Wood,
Printer,
352 Washington Street, Boston.

ARE YOU STUDENTS AWARE that you can furnish your rooms at
HOUGHTON & DUTTON'S
For less money than at any other house in Boston? If you doubt it, come and convince yourselves. We
give you here a few hints; run these down and they will open up many other bargains which you cannot
afford to ignore.

FURNITURE.

White Enamelled Beds, Brass Trim'gs, etc. $4.03 to $16.00
Mattresses in great variety 2.50 to 19.00
Bed Springs 1.25 to 6.98
Chiffonniers, Oak and Cherry 5.98 to 17.00
Plush and Rattan Rockers, in every style 2.98 to 20.00

RUGS. CARPET SIZES.

Wool Ingrains, size 3 by 2 yards $3.98 Japanese Ingrain, size 3 1-2 by 2 1-2 yards $6.98
```````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````````
FOOTWEAR.

Razor, Piccadilly, and Wide Toes.

PRICES REASONABLE.

Our $4.00 and $5.00 Shoes are of superior style and quality.

Discount to Technology.

T. E. MOSELEY & CO.,
469 WASHINGTON STREET.

The Massachusetts Institute of Technology,
BOSTON, MASS.
FRANCIS A. WALKER, PH.D., LL.D., PRESIDENT.

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY offers courses, each of four year, duration, leading to the degree of Bachelor of Science, in Civil, Mechanical, Mining, Electricals Chemical, and Sanitary Engineering, in Architecture, Chemistry, Physics, Biology, Geology, and Naval Architecture. A less technical course, in General Studies, is offered to students wishing to qualify themselves for business pursuits.

To be admitted to the first-year class, applicants must have attained the age of seventeen, and must pass satisfactory examinations in Algebra, Plane Geometry, English, History, French (or German), and Advanced Algebra or Solid Geometry.

A division of these entrance subjects between two successive years is, with certain restrictions, permitted.

Entrance examinations are held at the Institute in June and September of each year. In June, applicants are examined in New York, Philadelphia, Chicago, and other principal cities. A circular stating times and places is issued in advance, and will be mailed on application.

Graduates of colleges and scientific schools are admitted, without examination, to such advanced standing as is warranted by their collegiate training.

The catalogue of the Institute and any of the following descriptive circulars will be mailed free on application:—

MASSACHUSETTS INSTITUTE OF TECHNOLOGY: an illustrated pamphlet describing the laboratories of the Institute.

Of the departments of Civil Engineering; Mechanical Engineering; Physics and Electrical Engineering; Architecture; Chemistry; Biology; General Studies; Naval Architecture.

In regard to Opportunities for Teachers; The Lowell School of Design; Summer Courses.

H. W. TYLER, SECRETARY,
491 Boylston Street, Boston.
CONTINENTAL CLOTHING HOUSE,
MEN’S, BOYS’, AND CHILDREN’S CLOTHING,
GENTS’ FURNISHINGS, HATS AND CAPS.

Fine custom work made from measure. Uniforms of every description. Special attention
given to TECHNOLOGY and ENGLISH HIGH SCHOOL UNIFORMS. Workmanship the best. Prices the
lowest.

CONTINENTAL CLOTHING HOUSE,
Corner Washington and Boylston Streets, Boston, Mass.

OF ALL BAR SPRINGS THE FOUR-BAR IS THE BEST.

C. E. DAVIS,
Manufacturing and Prescription Optician,
No. 2 Park Square, Rooms 1 and 2, Boston.

MAKER OF THE FINEST CLASS OF PRESCRIPTION OPTICAL WORK AT A SAVING OF 75 PER CENT ON OLD PRICES.

SAMPLE PRICES: Compound Cylinders in Steel (best quality), $2.50. Artificial Human Eyes, to
Patient, $4.00. Fifteen per cent special discount to students.

IMPORTER OF ARTIFICIAL EYES.

Institute Men—

have the reputation of knowing
a good thing when they see it. Pond’s Extract is a good thing; the best thing obtainable for
sprains, cuts, inflammation, and all pain—

KEEP IT ON YOUR MIND—
that genuine Pond’s Extract has a buff wrapper and
yellow label.

POND’S EXTRACT CO., 76 5th Ave., New York.

30 HARDWARE DEALERS
IN BOSTON
SELL STARRETT’S FINE MECHANICAL TOOLS.
THE BEST MECHANICS
USE THEM.
SEND FOR CATALOGUE No. 13.
86 PAGES, ILLUSTRATED, FREE.

THE L. S. STARRETT CO.,
BOX 62, ATHOL, MASSACHUSETTS.
The Tech

Published every Thursday, during the college year, by students of the Massachusetts Institute of Technology.

Charles Gilman Hyde, '96, Editor in Chief.
Edward Arthur Baldwin, '96, Assistant Ed. in Chief.
Sheldon Leavitt Howard, '97.
William Thornton Parker, '97.
Ralph Spelman Whiting, '97.
Thomas Eddy Tallmadge, '97.
Raymond Smith Willis, '98.

Sheldon Leavitt Howard, '97, Secretary.

W. R. Strickland, '98, Business Manager.

Subscription, $2.50 per year, in advance. Single copies, 10 cts. each.

For the benefit of students THE TECH will be pleased to answer all questions and obtain all possible information pertaining to any department of the College.

Contributions are requested from all undergraduates, alumni, and officers of instruction. No anonymous manuscript can be accepted.

Entered in Post Office, Boston, Mass., as Second Class Matter.

It is with no small concern that The Tech has beheld the critical condition in which the Musical Organizations of Technology have been placed. Aside from Athletics, probably no other line of student effort is more important in developing a true college life and in bringing our outside interests into prominence, nor is there any other branch of social undertaking so worthy of support as the maintenance of the Glee, Banjo, and Mandolin Clubs. To the Banjo Club, especially, Technology has in the past turned with peculiar and honest pride; neither has a kindly spirit of applause in the work of the Glee Club been ever lacking, nor commendation ever withheld of the rapid strides toward more perfect success which the club has recently made. The Mandolin Club in its initial season last year won many laurels throughout the course of concerts.

This year, however, if report is true, the interest of the past has so far relapsed that the clubs will find extreme difficulty in successful reorganization unless a great deal of energy and enthusiasm be displayed on the part of those the most closely identified with the movement, and unless the proper spirit of competition for positions be shown by the student body. The present apathy which is evinced is wholly discreditable, and should be frowned upon by every man who has the best interests of his college and its social undertakings at heart. In view of the necessity for immediate action, The Tech hopes to see such an arousing of interest that efficient clubs will soon begin training for a concert course which will, if possible, be far in advance of all previous attempts.

We are glad to see that the opportunity for the study of Latin is appreciated, and a small class in Latin Readings has been formed this year. Aside from the study of scientific terminology, there should be a number each year to study a literature of which the best is accessible almost to the beginner. Meanwhile it is interesting to note that the class is begun with men from a scientific course, acting with the hearty approval of the professor in charge.

Once more Technology places an eleven in the football Arena, and asks for the hearty support which such a team undoubtedly deserves. Not only should the financial aid from the Institute at large be sufficient to defray the necessary expenses of a college team, but every player who can assist the eleven at practice in any way should come out regularly. If Technology is ever to be successful in football, it will be through this twofold support; and with the material at hand, there can be no better year than the present one. It seems a
pity that there should be excellent players at college who refuse to play when the positions for which they are peculiarly fitted are now the weakest on the entire eleven, and have been filled only with extreme difficulty.

The fund of material from which the team has been drawn has been indeed small, and the withdrawal of these old players is keenly felt. The practice during the past week was also hampered by the absence of regular members of the eleven. Nothing can be more discouraging to the captain than this real or apparent neglect of the work, and half-hearted support. In order to win success this year there must be hard practice and conscientious training. If every man does his duty the team will establish a record of which Technology may well be proud.

Upon Ninety-nine THE TECH desires to urge the prime importance of early representation upon its Board. With an unusually large number of men, and with a constantly increasing list of interests and undertakings, the complete record and announcement of class events becomes more and more necessary, and, indeed, more difficult unless the Board is able to depend upon the men of the class themselves to advance the news items. Too often in the past, the lack of suitable acknowledgment, and the apparent disinterest of the editors in the Freshman classes, have been directly due to the men of those classes themselves.

The Editor in Chief will meet personally any man in Ninety-nine, or in the college at large, who desires to try for the Board, on Saturdays throughout the term at twelve o'clock. For the benefit of all, we will state that locals are particularly desirable, and constitute the first line of effort. Upon once entering into the competition for places on the Board, a personal interest in the work of every man will be taken and the chairman will stand ready to assist him in whatever way may be possible. Ninety-seven and Ninety-eight have still fresh laurels to win in the editorial field, and we would advise a hearty co-operation on the part of each class. Ninety-seven will soon be called upon to take the place of Ninety-six, and Ninety-eight that of Ninety-seven. The necessity for further representation is apparent.

In an editorial of last week we referred to the high intellectual training which might be obtained at a technical institution when those in charge were themselves men of broad and liberal culture. It is true, however, that here, as well as elsewhere, the student himself must be responsible for whatever of benefit he derives from his college course. In illustration of our statement, THE TECH feels that it can do no better than to quote from an excellent article by E. L. Hall in the September number of The Bachelor of Arts:

To a young man who is filled with a noble enthusiasm for study and learning, with high aspirations and noble ambitions, every American university will afford ample opportunity.

As Matthew Arnold says:

'The seeds of godlike power are in us still;
Gods are we, bards, saints, heroes, if we will.'

In the youth is the true university; and unless our boy carries to college a high spirit, a love of the beautiful, a desire for all things true and precious, he will not find them there to be forced upon him. He will find a splendid opportunity, that is all.

In the September number of The Harvard Graduates' Magazine, always, by the way, a model college periodical both for literary skill and for excellent make-up, there is an exceedingly interesting and timely contribution in the department entitled "From a Graduate's Window," in which the author makes a vigorous plea for the use of English both in collegiate ceremonies and for mural inscriptions. With all respect for the cherished memories of the Past, when Latin was the language of all educated men, the author believes the tradition now outgrown. Nor does the use of Latin add one whit to the dignity of any address. Concerning the two methods of pronunciation, the "wany-weedy-weeky"
and the older style, the writer wittily remarks: "Although it is now twenty-five years since Harvard adopted the elder Weller's predilection for a 'we,' she still chooses to confer her honors with a 'V.'"

In regard to the mottoes inscribed on Memorial Hall, the author says: "The whole building is a memorial to Harvard men who lived and thought, and fought and died in English; they were the brothers, the companions in army and in piece of many of us; they were men of a new race, who gave their lives to preserve a country which should in nowise bow before

\[\text{The glory that was Greece,}
\text{And the grandeur that was Rome;}\]

and here where we have raised a monument to express, as best we may, our gratitude, and to perpetuate their honor, we have painted mottoes above them in an alien tongue. The precepts were in English which they took up into their characters and converted into heroic deeds; and in English should they be commemorated."

Apart from all financial considerations, it is our earnest conviction that it is the duty of every student to support his college paper; to contribute, if he can, articles of news or other matters of general interest to the student body; and to assist in making the representative of his college a credit both to the Students and the Institution.

Secretaries of Societies are particularly requested to send notices of future public meetings, in order that The Tech may be referred to for programmes of future, as well as records of current events, in the college world.

It is not the policy of The Tech to continuously solicit support in these columns; we urge, however, these few considerations in order to create a more enlightened self-interest and loyal spirit which will enable us to produce a periodical truly representative.

The Football Outlook.

The outlook for the 'Varsity eleven this year is very encouraging. Although the loss of six regular men will be severely felt, there is much new material, and the eleven is rapidly taking form. Ames, Thomas, Swift, Aultman, Rockwell, Washburn, and Le Moyne leave a big gap in the team, but '98 and '99 have contributed well, and if two of the six who are now in the Institute could find it possible to come out, matters could be greatly improved.

At present the center of the line is the strongest part of the team. Captain Mahan at center, with McCormick, Worcester, Ulmer, Riotti, and Robinson, as candidates for guard, give assurance of strong, steady work. Ulmer, especially, has been playing in fine form this year, breaking through and tackling well.

For tackles, Van Horne, Whiting, and Springer are the most promising candidates, while, in case of necessity, either Ulmer or A. G. Robinson could be moved out from guard.

End is the weakest part of the line at present. Rawson, of last year's eleven, will play left end, and Heckle, '99, is the most promising candidate for right end. Among the other men trying for the position are Watrous, Brown, McBride, Keys, and House.

At quarter back we have two good men in Mansfield and Warren. Both are experienced players, and Warren played several years on the Worcester Polytechnic Team. Mansfield is usually a little faster than Warren in passing the ball, but the latter is steadier. Both are rather light, and Warren does not accomplish much in blocking off, while Mansfield is weak in tackling.

At half back, Hayden and Howland have returned, but the need of proper substitutes
TETC will be badly felt. Robinson and Hitchcock are both new men, and lack experience. They are slow in getting into plays, and not very useful in the interference. Underwood will play full back, and Emery is improving fast, both in kicking and running.

In summing up, the team shows its greatest weakness at ends and half back. The eleven has been out so few times that it is hard to judge the individual players. As a whole, they need practice badly, and some of the men are decidedly undertrained.

The schedule of games shows six and possibly seven home games. The colleges and teams which Technology will play seem to be well selected to meet the requirements of our peculiar conditions, Hanover being the most distant place the team will visit. All of the home games will be played at the South End grounds, and it is hoped that there will be a large attendance.

Technology o, Exeter o.

Technology's first game of the season was played at Exeter last Saturday, and resulted in a tie. The inability of our eleven to score was due principally to its weakness behind the line, and considering that Exeter had already played several games, the score was not surprising.

The most encouraging feature of the game for us was the strong defensive play of the team, and although the men did not play together well, and the backs continually failed to support the ends as they should, the line as a whole was steady. This was particularly noticeable in the work of the three center men, who not only stood firm and allowed but one gain through guard, but broke through well, and did the best aggressive work when Exeter had the ball.

The tackles were necessarily weak, as Brown is really a candidate for end, and Springer, although he has the making of a good man in him, is inexperienced, and does not follow the ball well. The ends were also weak. McBride was slow; he put but little life into his work and did not break up interference well. Heckle played a hard game at left end, and only once did Exeter make a large gain around his end. Warren was steady at quarter but did not block off well, and was rather weak at tackling.

Of the backs Hayden did the best work. He made several very pretty runs and tackled well. Robinson was very slow, and evidently does not understand the position of half back. His faults are entirely excusable as he has never played back of the line before; with careful coaching, however, he will make a valuable man. Underwood was not in his best form, and did not buck the line as well as usual. He punted well, however, and on the whole played steadily, though less cleverly than usual.

The team as a whole showed a decided need of practice. The men did not play together, and were slow in starting. The defensive work was much better than the offensive, and Exeter lost the ball repeatedly on four downs. Of course it cannot be expected that the men will last well in the first game of the year, yet some of the line and Hayden showed lack of training, and this is undoubtedly an inexcusable fault.

The game began with Stuart kicking off to Warren. Technology then made some feeble attempts to advance the ball but failed, and Underwood punted. Stuart of Exeter fumbled the ball, and Technology had the ball in Exeter's territory. Exeter's center proved strong, and the ball changed hands twice on four downs. Then Tech. began an apparently straight march for the opponents' goal, but Robinson fumbled at a critical moment and the ball again changed hands. The remainder of the half was uneventful except for a beautiful run by Gibbons around McBride for thirty yards. The ball remained near the center of the field, and frequently changed hands on four downs until time was called.
The second half opened with a kick-off to Plunkett. Technology secured the ball on four downs, and again lost a good chance of scoring by a fumble. Exeter made several gains by bringing her ends and tackles over, and Gibbons followed these up by a beautiful end run, carrying the ball well into Technology's territory. The ball changed hands on Tech's 25-yard line, and three times the Exeter line stood firm, and Underwood punted forty yards. About three minutes before time was called Technology seemed to wake up, and probably would have scored in a minute more. The men interfered better and displayed the only evidences of team work seen during the game. Time was called with the ball on Exeter's 20-yard line.

The men lined up as follows:

**Technology.**

Heckle, l. c. r. Shaw.
Springer, l. t. r. Scannel.
Worcester, l. g. r. Peyton.
Manahan, c. Kasson.
Ulmer, r. g. l. Conner.
Brown, r. t. l. Higley.
McBride, r. e. l. (Evans) Emerson.
Warren, q. b. Thomas.
Hayden, h. b. Gibbons.
Robinson (Hitchcock), f. b. Bottcher.
Underwood, f. b. Stuart.

Umpire, Ross; referee, Rockwell; time-keeper, Prouty. Time, 20 and 15 minute halves.

**As Ever.**

With ideals elevated,
Noble thirst unsatiated
By fair visions actuated,
Learning's fields to thresh,
Minds in brilliance ne'er equated,
Inmost souls with Science mated,
Worldly things all isolated;
Lo, they come—the Fresh!

Born beneath some star ill-fated,
With ambitions over-rated,
Dreams of progress unabated,
Onward to the mesh.
Blessed with gall unmitigated,
In its essence concentrated;
Mounting thrones just abdicated;
Still they come—the Fresh!

Don D.
Mr. H. A. Gardner, a former graduate of the Institute, Class of '93, has been given charge of the second year Drawing Room this year.

The Freshman drill uniform will be the same as that adopted last year, with the possible substitution of white in the place of black cloth in the chevrons.

The first design problem for the Junior Architects this year is a study of the Doric Order as used in a "Pavilion between a Grill of Honor and a Portico."

Mr. L. M. Azebedo, '98, of Brazil, arrived in Boston on Friday, October 4th, after a week spent in quarantine at New York, owing to a case of smallpox on board.

Much of the efficiency of the Institute Committee bulletin board is destroyed by the neglect of the secretaries of the different organizations to forward notices of meetings.

The Class of '98 is fortunate in possessing a number of men of marked artistic ability, which has been shown by the work already done for the '96 and '97 "Techniques."

Mr. Shedd, the former instructor of the second-year Architects, has been obliged to leave the Institute on account of ill health. Mr. Gardner has been appointed to take his place.

Captain Bigelow passed through a very trying ordeal during the summer. His two children were seriously ill with typhoid fever, but, we are glad to learn, have now nearly recovered.

A complete explanation of the freshman drill question is contained in a paper written by President Walker. It is published on the first-year bulletin board, and copies may be obtained at the office.

The First Annual Reception tendered to the new students of the M. I. T. by the Institute Y. M. C. A. was held Saturday, October 5th, at 8 p. m., at the city Association building, 458 Boylston Street.

The '96 class elections will be held Saturday, Oct. 12th. Nominations made in writing, and signed by not less than five persons, must be filed with Mr. H. G. Fisk, Secretary, not later than Thursday, October 10th.

The first meeting of the Biological Club was held last Saturday, October 5th, in Room 11. It was devoted to talks in regard to the lifework of Pasteur and Huxley by Professors Sedgwick and Hough, Dr. Bigelow, Mr. Keith, and Mr. Crampton.


The Boston Y. M. C. A., on Boylston Street, has called Mr. R. E. Lewis to become College Secretary of Boston. He may be found at the Association Building, and will be glad to render any assistance possible to the students of Technology or other colleges.

All books and magazines taken from the library in the Rogers Building must be entered in a record kept by the librarian, and are not to be retained beyond the following day (Sundays and holidays excepted), save by special permission. Violations of this rule will result in exclusion from library privileges.

The '98 class election will be held Monday, October 21st. Nominations made in writing and signed by ten persons, and ten only, must be filed with Mr. H. I. Lord, Secretary, during the week ending Monday, October 14th. Extracts from the constitution bearing on the election have been posted on the '98 bulletin.

A meeting of the class of '98 was held last Friday at 1 p. m. in Room 11, Rogers. Mr.
Ulmer made an earnest appeal in behalf of the class football team. The Treasurer's report for the year '94-'95 was accepted as read, and a hearty vote of thanks was extended to Mr. Sargent, who has left Technology to enter business.

There has been a marked change made in the Military Department this year, most notably the establishment of a course in military engineering, and the drilling of the whole class on one afternoon instead of on two, as heretofore. The latter will give a good opportunity to Captain Bigelow of performing experimental regimental maneuvers.

The cadets will all drill on the same day instead of on two different days, as was the case last year. The organization will be that of a single battalion instead of a regiment of two battalions. Students taking Course B will attend the lectures given in Course A, and in lieu of drill will recite in Wagner's "Security and Information.

The members of the Institute who were recommended to the War Department this year by Captain Bigelow, were: E. H. Huxley of Newton, Mass., C. F. Tillinghast of Providence, C. A. Meserve of Allston, and G. W. Hayden of Roxbury. In case of war these men will be given a preference over the other applicants for commissions, owing to this recommendation.

President Walker's annual address to the Freshmen was given in Huntington Hall on Friday, October 4th. After a warm welcome to the new class, General Walker expressed the hope that the members of '99 might "soon become acclimated to Boston's weather" and accustomed to the life here. He stated that the Institute was founded "upon the essential manliness of young men," and that no matter how the standard of other colleges may be lowered, Technology will ever aim to maintain the high level upon which she has, up to the present time, moved.

Heffelfinger will coach the University of Minnesota team.

The Harvard Freshman class numbers 465, a gain of 47 over last year.

Wefers, the Boston sprinter, has been taking the Yale entrance examinations.

Lehigh promises to put on the field an exceptionally strong team this year.

The Cornell musical clubs, thirty-five members, have been abroad all summer.

The Indian School at Carlisle, Penn., will put a football team on the field this year.

The Yale-Harvard championship yachting cup has been won by Yale twice, in 1894 and 1895.

The faculty of Harvard during the summer confiscated all signs found in the students' rooms.

The entering class of the Harvard Law School numbers 215, of whom 18 are Yale graduates.

Phil. Draper, the Williams full back, has been doing 100 yards in 10½ seconds in practice recently.

W. C. Wurtemburg, the old Yale quarterback, has developed a strong team at Dartmouth this year.

At Bryn Mawr two new departments have been opened, one of art and archaeology and the other of geology.
The Freshmen and Sophomores of Dartmouth have had two rushes, both of which were won by the Freshmen.

It is proposed to have a series of matches for the freshman championship between Amherst, Dartmouth and Williams.

The Lehigh University Glee and Banjo clubs made a trip along the New Jersey and New England coasts during the summer.

Harvard and Yale made rather a poor showing in their opening games, and neither team is as strong as it was at this time last year.

Brown, Williams, Amherst, Dartmouth and Andover have adopted the Yale-Princeton football rules. Exeter will play according to the Harvard-Pennsylvania-Cornell code.

The present entrance class at Boston University is the largest ever known in the institution. The number already registered shows an increase of fifty over last year.

Football practice at Brown increases in interest every day, and the number of men who report for practice is steadily increasing. About forty men are at work on the field.

The entering class of the Yale Law School will number at least 100. The senior class numbers 60, and the graduate class 25, making the total membership of the school about 200.

Seven members of the '94 Harvard eleven have returned to college. Lewis, center on the '93 eleven, Upton, end in '92, and Waters, captain of the '93 team and tackle last year, are coaching the candidates.

The University of Pennsylvania will try a new system this year with her scrub eleven. Knipe will organize and captain a regular team, containing no Varsity substitutes, and having its own code of signals and system of play.

A new chair has been established in Columbia College this year, to be known as the "Seth Low Professorship of American History." Its object will be to impart accurate instruction in American History and the development of the principles of constitutional liberty.

The Boston Herald says: Football runs in the Manahan family. Tom Manahan made the Harvard 'varsity two years ago, and he would prove a valuable man at the present time for Harvard at right tackle, John Manahan is the sturdy center and captain of the M. I. T., and a younger brother is now playing right end for the English High.

The freshman class in the scientific department at Yale will probably be about fifty men smaller than last year, the additions in the entrance requirements demanding nearly a year's added work. The standard has also been raised in the law school and as a result about twenty-five members of the senior class have been conditioned or dropped and have gone to the Columbia Law School.

The faculty of Harvard College have passed a vote prohibiting any musical or dramatic performance by Harvard clubs or societies, except in places to which, and from which, the men can travel in one day. This has caused a great deal of dissatisfaction among the Hasty Pudding and the Glee Club men, and efforts will be made to have the Faculty rescind, or at least modify, their vote.

The Yale gymnasium has opened for the college year. Henry S. Anderson, who had charge of most of the floor work on the gymnasium the past year, has resigned, and accepted a position as instructor of the University School, Cleveland, O. Mr. Anderson will have exclusive charge of the gymnastic work of the members of that school. His successor has not been announced. It is probable that two Yale undergraduates who have shown proficiency in gymnastic work will succeed him.
"Tommy" Curtis will play with B. A. A. this fall.

The 'Varsity Football team is receiving earnest support from the Freshman class this year.

The special committee of the Baseball Association hope to devise a scheme for paying off the debt.

The Freshman class contains considerable good football material. Their class team should be well up to the standard.

The rule adopted last season to the effect that no 'Varsity football player shall play on his class team will seriously cripple the Sophomore team this year.

Warren, W. P. I., '95, is at Tech this year, and is a valuable addition to the 'Varsity. He played quarter back on the Worcester Tech team for the last two years.

The following men of last year's freshman football team will not play on the Sophomore team this fall: Nesbit, Snelling, Le Moyne (Capt.), Farley, Tobey, Sargent (H. B.), Mara.

In looking over our "new arrivals," there seems to be some excellent athletic material. The "heavy weights" should report to Captain Manahan at once; the track men should send their names to Captain Cummings.

Of last year's 'Varsity team Rockwell, Washburn, and Goudy are still in college, but are unable to play. Van Horne and McCormick will come out later. The other losses are Thomas (last year's captain), Le Moyne, Swift, and Coburn.

The Lounger is glad to make an exclusive announcement. The second week of term time finds the class of Ninety-nine daily playing the role of Freshmen to large and interested audiences. The Lounger's constant aim to instruct leads him to make this statement, more particularly to bring it to the eyes of the actors themselves. After all, this is a somewhat expected state of affairs, for although a few of the more glaring and protuberant eccentricities have been removed, there is yet discernible that peculiar something which everywhere betokens Freshman adolescence. Our present Sophomores exhibited all these characteristics a year ago—a fact which Ninety-eight would not admit for worlds—which only goes to show how wonderful is the difference 'twixt the Freshman and his all-sufficient predecessor. It is, indeed, true that some lamblike and youthful attributes cling to certain men whatever the length of time they spend in college, and the Lounger, having had acquaintance with several such specimens, can aver that the experience was not particularly edifying. For the sake of Technology and the world at large, let the Lounger express his hope—later, perchance, his conviction—that Ninety-nine contains the minimum number of these individuals.

Apropos of the progress which the new men have made, the Lounger might note the fact that no longer does the shy Freshman wait to be served at the tables in the lunch room. He has seen the expediency of rising in his might and battling with the serried columns of his fellows about the magic dead line—hight counter—behind which lie temptingly disposed the vast array of comestibles for the insatiate throng. The Lounger's use of military terms in the above may appear vague, especially to the dogs of war recently unleashed in Ninety-nine; but Captain Bigelow's glossary has been kindly placed at the disposal of THE TECH'S subscribers, and any haziness may hence be easily removed.
All of which leads naturally enough to a consideration of the personnel of Technology's famous Sybaritic retreat, of the new crop of lunch-room girls which have this year been specially imported. The Lounger sees in this circumstance, since it indicates the departure of last year's figurantes, only the clear loss of much conscientious effort. It is given to but few to realize the time and care necessary to properly educate a denizen of our subterranean restaurant. To so order things that the eager servitor will recognize one's face from afar, and hasten to set forth for his especial delectation the choicest vintages of the larder, is, forsooth, a work of patience and eke of "jollying" truly monumental. Well does the Lounger recall the docility and deftness of his own particular maid of a year ago, though he hesitates to descant at length, lest he imperil the success of the efforts he is putting forth at the present time. While mourning with his wonted sincerity the absence of the departed, he still contrives to "illume" his countenance with one of those winning smiles which he trusts have lost none of their old-time efficacy.

Then!

In the good old days,
With their courtly ways,
What a dainty theme
Did a maiden seem
For a song,—
With her powder and her patches,
And her high-heeled shoes;
With her silks and her satins,
With their varied hues;
With her frowns that come and go,
And her winning grace;
With her witching smile and glance,
And her pretty face,
In the good old days!

AND NOW!

In these learned days
With their scholars' ways,
What an abstruse theme
Does a maiden seem
For a song,—
With her science and her art,
And her ancient Greek;
With her German and her French
To read and to speak;
With her "ologies" and "isms,"
"T square" or "rettort."
And the many schools of learning
Where she may resort
In these learned days.
THE TECH

HUMBER CYCLES.

In every cycle factory in the world HUMBER Cycles are admittedly the best product in cycle construction which inventive genius, precise methods, skilled mechanism, and unlimited facilities have produced. They are the standard of supreme excellence in all parts of the civilized world. Send for catalogue.

SHIRTS.

Gentlemen’s Dress and Business Shirts, $1.50, $2.00, $2.50 and upward.
NEGLIGEE SHIRTS, $1.50, $2.00 and upward.

BICYCLE AND GOLF OUTFITS.

Lounging and Blanket Wraps, $5 to $25.

GLOVES. The New Grip Driving Glove, the Famous London Tan at $1.35. Fownes’ New Craven Tan, Fownes’ New Cavendish Tan, Fownes’ Best Cheverette Gloves.

PAJAMAS or East India Sleeping Shirts, and Long Night Shirts, made from English Flannels, Cotton and Silk, for steamer, sleeping car, yachting, or hunting.

SPECIAL LAUNDRIES for Dress Shirts, for Family Work, for Collars and Cuffs. The best work possible to be done.

NOYES BROTHERS, Washington and Summer Sts., BOSTON, MASS., U. S. A.

CHAUNCY HALL SCHOOL,

HAS LONG MADE A SPECIALTY OF
PREPARATION FOR
TECHNOLOGY.

REFERENCE is made to the INSTITUTE FACULTY in regard to the thoroughness with which Chauncy-Hall pupils are fitted, not only for entering the Institute, but also for pursuing successfully their subsequent work. Preparation, also, for business and for college.

593 Boylston Street, Boston.

PROFESSOR C. L. ADAMS’ PORTFOLIO OF
Letter · Drawing · Plates
can be obtained at our branch store,
Grundmann Studios, adjoining Architectural Building,
where we shall keep at all times a full line of
DRAFTING IMPLEMENTS,
Drawing and Blue Process Papers,
Scales, Triangles,
CURVES, T SQUARES, Etc.

Wadsworth, Howland & Co., INCORPORATED,
82 and 84 Washington St., Boston,
38 Randolph Street, Chicago.

SPECIAL RATES TO STUDENTS.

Established 1828.

Event.
ALBERT BENARI,
Tobacconist,
33 Tremont Street, - - BOSTON, MASS.
Cigarettes, Tobacco, and Smokers' Articles.
Agent for Hale's Smoking Mixture.

Scientific Books
DAMRELL & UPHAM,
The Old Corner Bookstore,
383 Washington St., Boston.

DR. CHARLES P. VESPER,
DENTIST,
194 Boylston Street, opp. Public Garden,
Boston.

CLASS-DAY INVITATIONS,
BLANK BOOKS, FOUNTAIN PENS,
CAN BE FOUND AT THE CO-OPERATIVE STORE,
H. H. CARTER & CO., 5 Somerset St., near Beacon.

MANDOLIN, Banjo and Guitar Lessons.
Instruments, Best Strings, Latest Music, etc.
G. L. LANSING, No. 171 Tremont St.
Ask for Mr. Lansing.

Gentlemen! I wish to call your attention to the
fact that I am paying the highest Cash Prices for Cast-off Clothing. Also
Cleaning and Repairing done at short notice.
Money to loan. Send postal to ........
M. KEEZER,
117 1-2 Chestnut Street, Boston.
I can be found outside the Technology Buildings on Boylston St. daily

MESSANGER & JONES,
High Class Tailors,
388 Washington St., Boston.
ALL GARMENTS CUT IN STRICT ENGLISH STYLE.
M. I. T. Co-operative.

PRIZE MEDALS & SOCIETY PINS.
Manufacturers of the Official Tech Pin.
DIAMONDS AND FINE JEWELRY A SPECIALTY.
HENRY GUILD & SON,
No. 433 Washington Street, cor. Winter Street, Boston.

Out of Paper?
If so, no store in Boston can give you better value for your money than ours.
BOSTON LINEN, BOSTON BOND,
and BUNKER HILL are the nicest papers in existence, and
can be had in all the correct sizes, daintiest tints and latest
finishes. Full lines of Students' Notebooks, Theme Papers,
and general stationery.
S. A. WARD CO., 49 Franklin St., Boston.

Woodworking Machinery.
COLUMBIA TAILORING ROOMS,
Ladies' and Gents'
FINE * TAILORING.
DRESS SUITS TO LET.
Fancy Dyeing and Cleansing. Goods called for
and delivered free.
597 1-2 TREMONT ST., BOSTON.
I. SHEINWALD, Manager.

PHILADELPHIA ICE CREAM COMPANY,
150 Tremont Street, Boston.
Telephone No. 1060.
E. M. LAWS, Prop.
Ice Cream Soda a Specialty.
Afternoon Delivery to Brookline and Highlands.

J. E. HILL, Watchmaker.
Cleaning Watches a Specialty.
No. 106 TREMONT STREET.

CHAS. C. HUTCHINSON,
SURVEYING INSTRUMENTS,
Charts, Books, and Compasses.
150 AND 152 STATE ST., BOSTON.
ARCHITECTURAL PHOTOGRAPHS,
The Largest Collection in America.

All the best Public Buildings, Churches, Private Houses, and Business Blocks in Boston and New York. Richardson's Works of Importance from all over New England. Also a complete line of

Art Photographs for Room Decoration.

STUDENTS WELCOME TO EXAMINE, WHETHER DESIRING TO PURCHASE OR NOT.

SOULE PHOTOGRAPH CO., Publishers,
338 Washington Street, Boston.

FALL GOODS NOW READY.

OF HAMILTON PLACE BOSTON.

THE TECH

LEADING OUTFITTERS

OF

High Grade Mackintoshes

AT POPULAR PRICES.

For the Principal Colleges in New England, Regular Co-operative Discounts.

CLEVE & KRIM,
Metropolitan Rubber Co.
49 Summer Street, Boston.

Week beginning October 14, 1895.

Hollis Street Theatre.—"The Masqueraders," presented by the Empire Theatre Stock Company, of New York, has certainly enjoyed the same success in this city as in New York. It will be presented until the farewell performance, October 19th, when "Marse Van," a one-act play, will be given for the first time in Boston.

Boston Museum.—The fifth week of "The Fatal Card," and yet not the slightest indication of a falling off in the attendance. The past week, with its many theatrical attractions, has been a fair test, and "The Fatal Card" has stood the trial satisfactorily.

Park Theatre.—Robert Hilliard and his Company will present for the first time in Boston the new comedy, "Lost—24 Hours," and a one-act comédietta, entitled, "The Littlest Girl," after Richard Harding Davis's story, "Her First Appearance."

Tremont Theatre.—Henry Irving, Ellen Terry, and the London Lyceum Theatre Company. For the first two weeks the house has been crowded nightly by brilliant, fashionable assemblages, and the enthusiasm they have shown has been remarkable for Boston.

Boston Theatre.—The magnificent melodrama, "Burmah," enters upon its seventh week Monday evening. In the matter of scenic effects and accessories in "Burmah," art reigns supreme and exercises a peculiar fascination upon the beholder. The Maxim-Nordenfeldt gun has attracted a great deal of attention.

Castle Sq. Theatre.—The revival of the "Mikado" next week will receive a hearty welcome from Bostonians. It will be presented by the well-known and popular Castle Square Opera Company, supported by a fine and large chorus. Popular prices.

Thayer, McNeil & Hodgkins'

Celebrated Shoes

FOR STUDENTS AT TECH.

$4, $4.50, $5, $5.50, and $6 a pair.

Members of
Co-operative.

47 Temple Place, Boston.
THE TECH

F. L. DUNNE,
Maker of Men's Clothes.

SPORTING AND MUFTI DRESS A SPECIALTY.
Exclusive Fabrics for GOLF Suits and Knickers.

TRANSCRIPT BUILDING,
BOSTON.

COWLES ART SCHOOL,
145 Dartmouth Street.

Special attention given to EVENING CLASSES FOR TECH
STUDENTS in life and cast drawing.

Address
F. M. COWLES, Agent.

TUITION, 84.00 per Month. Three Evenings per Week.

THE BRUNSWICK
BOSTON.

Boylston and Clarendon Streets,
(Adjoining Copley Square)

Near the Museum of Fine Arts,
New Public Library, New Old
South Church, and opposite
Trinity (Phillips Brooks')
Church, and Institute
of Technology.

KEPT ON BOTH AMERICAN AND
EUROPEAN PLANS.

BARNES & DUNKLEE, Proprietors.

H. H. BARNES, Manager.

FOOTBALL SUPPLIES...We can furnish every requisite
for the game—

UNIFORMS, HEAD HARNESS, SHIN GUARDS,
NOSE PROTECTORS, SHOES, etc., etc.

A full assortment for Fall and Winter Sports. Send for complete Catalogue.

The Official Football Guide for 1895, edited by Walter Camp, and rules revised by committees

WRIGHT & DITSON, Boston, Mass.

Wholesale, 95 Pearl Street. Retail, 344 Washington Street.

DAME, STODDARD & KENDALL.

We are making a specialty of

FOOTBALL AND GYMNASIUM CLOTHING.

Also carry everything pertaining to Football and Gymnasium Purposes.

Discount to Tech students.

NO. 374 WASHINGTON AND NO. 2 FRANKLIN STREETS, BOSTON.
The Richmond Straight Cut No. 1 Cigarettes.

Cigarette Smokers who are willing to pay a little more than the price charged for the ordinary trade cigarettes, will find this brand superior to all others.

These Cigarettes are made from the brightest, most delicately flavored, and highest cost Gold Leaf grown in Virginia. This is the Old and Original Brand of Straight Cut Cigarettes, and was brought out by us in the year 1875.

Beware of imitations, and observe that the firm name as below is on every package.

ALLEN & GINTER
THE AMERICAN TOBACCO CO., SUCCESSOR.
Manufacturer, RICHMOND, VIRGINIA.

QUICK LUNCH
BOYLSTON CAFE,

A. ALGAR, Proprietor. 707 BOYLSTON ST., corner Exeter.

HOTEL PLAZA,

419 Columbus Ave., Boston.

Pioneer of the new hotel center in Boston. Noted for its superb location, superior rooms, excellent cuisine and service. Standard hotel for giving more value for price than any first-class hotel in city.

BARBER SHOP
Everything in connection first class.
College work solicited.
Shaving, 10 cents.

BILLIARD ROOM


THE RIGHT PLACE TO BUY
MATHEMATICAL INSTRUMENTS,
Colors, Drawing Papers, Blue Process Papers, T-Squares, Scales, Curves, Triangles, and all kinds of Architects’ and Engineers’ Supplies and Artists’ Materials
AND PICTURE FRAMES, IS AT
FROST & ADAMS CO., 37 CORNHILL, BOSTON, MASS.
New catalogue free on application. Importers, Wholesale and Retail Dealers.
Special Rates to the M. I. T. Students.
GEO. H. GREENWOOD,
9 AND II BOYLSTON STREET,
DIRECT IMPORTER OF
FRENCH AND ENGLISH BRIAR PIPES
AND SMOKERS’ NOVELTIES.

The Most Complete Stock of Fine Goods in the City.

---

Priest’s Dining Room,
102 Dartmouth Street, Boston.

21 Meals (full ticket), $4.00. 14 Meals, Breakfast and Dinner, $3.00. 7 Meals, Breakfast, $1.50.
7 Meals, Lunch, $1.40. 7 Meals, Dinner, $1.75.

Hours for Meals.—Week Days: Breakfast 6 to 10; Lunch, 12 to 2.30; Dinner, 5 to 8. Sundays: Breakfast, 8 to 10.30; Dinner, 12.30 to 3.30; Lunch, 5.30 to 7.30.

C. M. PRIEST, Proprietor.

---

NECKWEAR
L. E. FLETCHER & CO.
College Hatters and Outfitters.

Latest Styles and Popular Prices. Custom Shirts a Specialty.

M. I. T. CO-OPERATIVE SOCIETY.

No. 158 Boylston Street, Boston.

---

CANES