



HE TECH



HE: "Why is that golf ball like Billy Bryan's home?"

SHE: "Oh, that's easy. Because it's a silver town, of course."

VOLUME XVII.

NUMBER 3.

OCTOBER 21, 1897.



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.

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, 5 and 10 Pound Boxes. Pure, Fresh Milk and Cream, delivered in Glass Jars. Fresh-laid Eggs. Pure, Full Cream Cheese, American (plain), Sage, Neufchatel and Edam. All kinds of Fruit Ices.

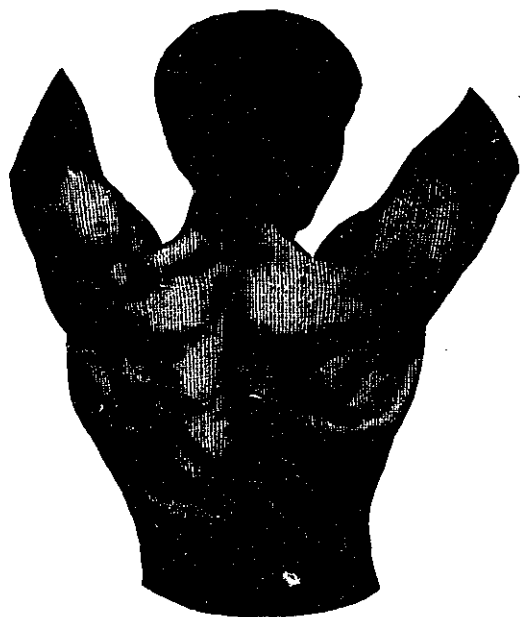
NELSON L. MARTIN.

ALL GOODS REQUIRED BY STUDENTS AT
MACLACHLAN'S

214 CLARENDON STREET.

Fountain Pens, Text Books.

Drawing Instruments and Materials, etc.



...GYMNASIUM...

Physical Training. Keep in Condition by using our Gymnasium.

Boston Young Men's Christian Association

Boylston and Berkeley Streets.

TERMS, \$10.00 PER YEAR.

Including All Other Privileges of the Association.

MEDICAL SUPERVISION.

FINE APPARATUS; CONVENIENT LOCKERS; FREQUENT CLASSES; FREE INSTRUCTION; NEW SHOWER, SPONGE, SPRAY, AND STEAM BATHS; RUNNING TRACK (raised corners). Open 9 A. M. to 10 P. M. MASSAGE DEPARTMENT (services reasonable).

R. J. ROBERTS, Director. GEO. L. MEYLAN, M.D., Medical Director.
N. E. SANDERS, A.B., Assistant Physical Director.

THE HAT OF THE SEASON.

SPECIAL ATTENTION

Given to Technology Uniforms.

STYLE



PRICE,

1616

\$2.00.

Special 1616

has all the characteristics of a
\$3.00 hat and costs but \$2.00.

THE LARGEST STOCK IN BOSTON OF

NOBBY + SUITS + AND + OVERCOATS.

CONTINENTAL CLOTHING HOUSE,

COR. WASHINGTON AND BOYLSTON STREETS.

ST. BOTOLPH HALL CAFÉ,

38 ST. BOTOLPH STREET.

PRICES:—Regular Weekly Board . . .	\$6.00	Regular Weekly Luncheon . . .	\$1.50
" " Breakfast and		Single Meals, Breakfast . . .	.40
" " Dinner . . .	5.00	" Luncheon . . .	.25
" " Breakfast . . .	2.50	" Dinner . . .	.50
" " Dinner . . .	3.00		

21 MEALS TICKET, \$7.00. MEALS TO BE TAKEN WHEN DESIRED.

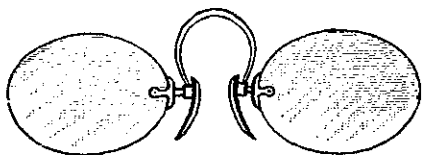
Patrons are assured that everything served in this Café is the best of its kind in the market.

Thanking students of the Institute for their past support, I respectfully solicit a continuance of their esteemed patronage.

M. DWYER.

Rimless Glasses.

25 per cent



Discount.

CO-OPERATIVE LIST.

Oculists' Orders Filled.

FACTORY ON PREMISES.

MAIL ORDERS A SPECIALTY.

CATALOGUES MAILED ON APPLICATION.

C. E. DAVIS,

Manufacturing and Prescription Optician,

2 PARK SQUARE - - - BOSTON.

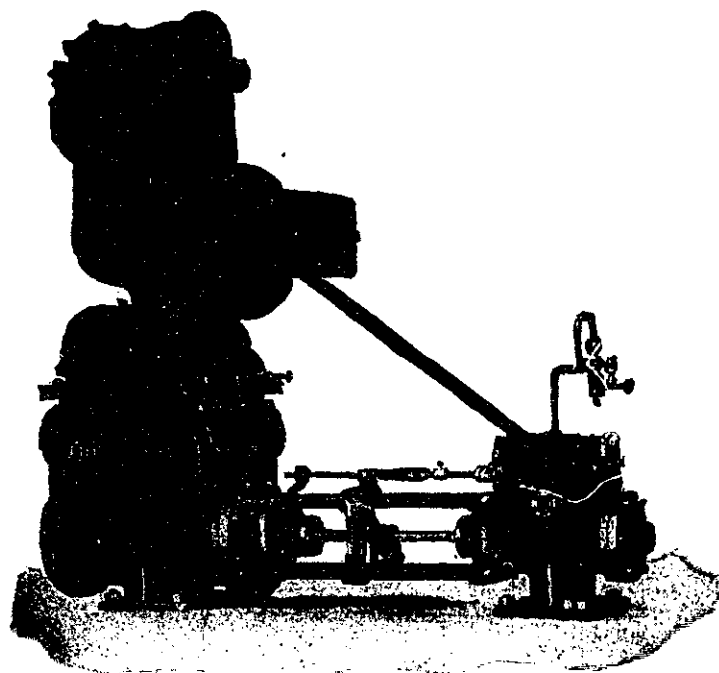
1 FLIGHT. ELEVATOR.

THE DEANE STEAM PUMP CO.,

HOLYOKE, MASS.

Boston Office 54 Oliver Street.

PUMPING MACHINERY OF EVERY DESCRIPTION



DEANE INDEPENDENT
CONDENSING APPARATUS

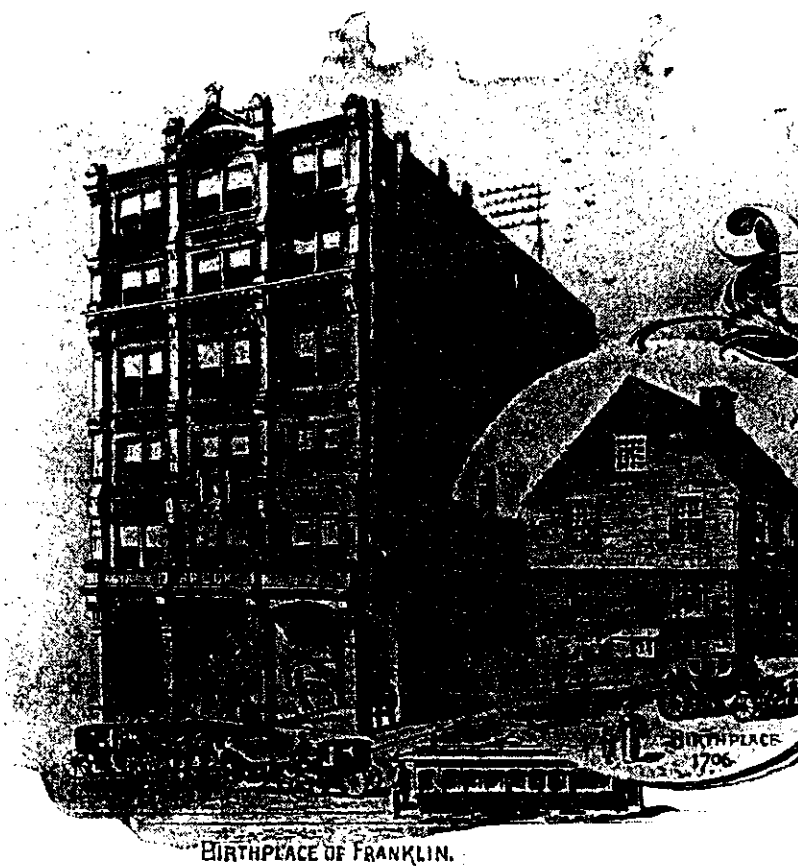
TRADE MARK

COLLINS & FAIRBANKS
CELEBRATED
HATS

SOLE AGENTS
FOR
HENRY HEATH'S AND
A.J. WHITE'S LONDON
HATS

STYLES CORRECT
QUALITY UNEQUALLED

381
WASHINGTON ST. BOSTON



Wm. Brooks & Co.
Importing Tailors

15 MILK STREET.
OPPOSITE OLD SOUTH CHURCH.

BIRTHPLACE OF FRANKLIN.

BIRTHPLACE 1706.

LONDON OFFICE, 6 SAVILE ROW.

THE LARGEST ASSORTMENT OF FOREIGN WOOLLENS SHOWN IN BOSTON

M. I. T. CO-OPERATIVE.

THE TECH

VOL. XVII.

BOSTON, OCTOBER 21, 1897.

NO. 3.

THE TECH

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

CHARLES-EDWARD AMORY WINSLOW, '98, *Editor in Chief*.
JOHN MAGEE, 2D, '99, *Assistant Editor in Chief*.
THOMAS EDDY TALLMADGE, '98, *Secretary*.
GERALD MARTIN RICHMOND, '99.
CLARENCE RENSHAW, '99.
MORGAN BARNEY, 1900.

W. R. STRICKLAND, '98, *Business Manager*.
M. DAVENPORT, 1900, *Assistant 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.

Frank Wood, Printer, 352 Washington Street, Boston.

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

BY this time, work at Tech. is once more moving smoothly along in the old accustomed ruts, at least in all the upper classes, and even the Freshman Class is getting well settled. The First-year men are finding out for themselves that people speak correctly when they say that the Institute generally means, "all work and no play," the truth of which statement should be one of the first things realized by men entering Tech. The one essential to the completion of a successful course is absolute devotion to it, and the man who does not earnestly apply himself is likely to find serious difficulties awaiting him in the near future. Mr. Disraeli spoke truly when he said, "The secret of success is constancy of purpose."

The fact that the entrance examinations for Tech. are comparatively easy is probably responsible for many a failure, for it gives the impression that examinations after entrance will be on the same standard, and that all the talk about hard work at the Institute amounts to little or nothing.

Proceeding on this basis the prospective graduate finds at the first set of formal examinations that he has made a serious mistake, and is, consequently, below the standard. A word of warning on the subject, therefore, seems appropriate, and we hope that its truth and fitness will be realized by the men who are now getting their first experience with the difficulties of an Institute course.

Nearly all men upon entering Tech. have already decided what course they will apply for, and what studies they will pursue. Some, however, have not done this, and although there is no great demand for haste in making a decision, consideration of the subject should begin at once, and for those who are in doubt, a circular on the choice of courses may be obtained from the office. If individual taste is allowed to rule, however, the student will generally find that he has done the best possible thing in regard to the subject.

THE beauty of Copley Square is seriously threatened by the erection of a ten-story apartment house on Trinity Terrace, directly across from Trinity Church. The mere height of such a structure shooting up, as it would, one hundred and thirty feet, or about even with the highest cornice on the Trinity tower, cannot but prove a great detriment to the beauty of the church and the dignity and repose of the whole square.

The "Center of good Architecture in America," as Copley Square has justly been called, is at last to be invaded by that monster the ruthless steel-ribbed, disproportioned skyscraper, whose proper lair is turbulent Wall Street or unartistically utilitarian Chicago. We can well imagine the Public Library, in

white and refined repose, sadly commiserating with her mighty neighbor and rival, so soon to be struggling, alas! in vain, for supremacy like a Prometheus bound.

We are informed that condemnation proceedings have been begun on all Trinity Terrace with the idea in mind of running an avenue through. This, of course, if successful will stay the hand of the vandal, and assure to us for all time the church in all its unrivaled architectural impressiveness.

THE result of the football game with Amherst, following as it does a defeat at Exeter, should not by any means discourage the students' loyalty and support of their team. It is a strange fact, that a winning team, a team which needs no excessive support, is the team which invariably calls forth the most unstinted enthusiasm, while the losing team is selfishly refused the very enthusiasm and stimulus which would make it a successful one. When football interest reaches the low state it is in at present at Technology, a star team cannot be lined up in a month, or a year. It will take steady, conscientious work for the next two or three years to lay the foundation for a good Football team here, and in the meantime the student body ought to consider itself farsighted enough to stand by the managers and coaches through thick and thin, a backing perhaps better expressed by the number and efficiency of candidates, than financially.

NEWS comes to us from Williams of a peculiar case of a plan defeating its own ends. Finding that the college was becoming overcrowded, and wishing to diminish the number of students, the Faculty have raised the standard. Instead of accomplishing their desire, however, the result has been that the increase in the number of students who apply for entrance is much greater than the number dropped.

This looks as if the popular conception of the college man were not so correct as is generally thought, and that he is not looking for a place to shirk as much work as possible, but for one where he can really educate himself. Another peculiar case illustrating this is seen at Cornell, where, since the course of study leading to the degree A.B. has become wholly elective, the student body, of its own accord, chooses the harder of the courses in preference to the easy ones.

Amherst, 8; Tech., 6.

ON last Saturday the 'varsity team played its second game, and, although defeated by Amherst, the men showed a great improvement, especially in the second half, over their work of a week before against Exeter. The dash and sureness with which the eleven played took Amherst quite by surprise, and instead of running up a big score on Tech., the men who had held Yale down to eighteen points were forced to play a defensive game throughout the second half.

Amherst kicked off, and then got the ball again on a fumble by Tech. An end play netted fifteen yards. A series of short rushes followed, and the ball went across Tech.'s goal for the first touchdown.

Before the close of the first half Amherst again succeeded by a series of steady games in pushing the ball over for their second touchdown.

In the second half our men played a quick, aggressive game, keeping the ball in their possession most of the time. Steady play brought Tech. down the field, and Werner scored on a play between tackle and end.

With the exception of Le Bosquet the Tech. line played well. Captain Ulmer got into all the plays, and Heckle put up a good game against one of the best men of the Amherst team. Stebbins and Richardson on the ends tackled well, and did some good work in breaking up interference. Behind the line Nolte's punting was the principal feature.

There still remains some fumbling throughout the team, and unnecessary slowness at quarter-back. The team, however, will probably be strengthened by Osgood and Robinson on the field once more.

The line up of the teams was as follows: Amherst: Ballantine, l. e.; H. C. Dudley, l. t.; Fosdick, l. g.; Winslow, c.; W. C. Dudley, r. g.; Elam, r. t.; Howard, r. e.; Pratt, q. b.; Whitney, h. b.; Kendall, h. b.; Griffin, f. b. M. I. T.: Stebbins, r. e.; Heckle, r. t.; Le Bosquet, r. g.; Perkins, c.; Ulmer, l. g.; Danforth, l. t.; Richards, l. e.; Clifford, q. b.; Morse, h. b.; Werner, h. b.; Nolte, f. b.

Touchdowns—Whitney, Griffin, Werner. Umpire—Stearns. Referee—Locke. Time 20m. and 15. m. halves.

In the second half Macdonald was played right guard, Nesmith, left tackle, and Emery at half in place of Morse.

Yesterday the team played Phillips-Andover.

The Walker Memorial Exercises.

THE grand and impressive exercises of last Thursday evening, at which we were all privileged to be present, were a great revelation to many. Although loving and honoring President Walker as all did, were there any of us who fully appreciated the greatness of this man, who, occupying numerous positions of honor and fame, well known in public and private life, was yet so modest and unassuming, and always within reach of the humblest student? Were there any of us who did not regret that we had not made better use of an opportunity whose priceless value was only impressed upon us by its loss?

Rarely has Music Hall held such a distinguished assemblage as that which gathered within its walls on this occasion. The most prominent men in the city, state, and nation were present. On the platform were delegates representing the most noted scientific, literary, and educational bodies in the country. The

balconies were filled by men and women well known in every walk of life. The exercises were in charge of a committee consisting of James M. Crafts, Francis H. Williams, and James P. Munroe of the Corporation, Professors Sedgwick and Dewey of the Faculty, and John R. Freeman, Henry M. Horne, A. Lawrence Rotch, and Wilfred Bancroft of the alumni. The active work was carried on by a sub-committee consisting of Messrs. Munroe, Williams, and Sedgwick.

The meeting was called to order by Mr. James P. Munroe, who introduced Governor Wolcott. Senator Hoar, in whose office General Walker began the study of law after graduating from Amherst College, delivered the memorial address.

Full accounts of the exercises, including the speeches, have been given in the daily papers, and as all connected with the Institute were present a further account is unnecessary.

My Sister's Friend.

HOWARD SNOW and I had been college chums through the four hard years of a Tech. course, and when we graduated with the Class of 9-, and my family moved down to a small seaside town some miles north of Boston, it was not hard to persuade my friend, who was employed in the city, to spend his summer there. This was made easier by the fact that my sister numbered him among her most ardent admirers.

This was the situation one September day when I received a note from my chum, dated in Boston, saying that he had been unexpectedly called to New York and wished me to stay in his rooms while he was away so as to see that no harm came to his collection of coins, which was a valuable one.

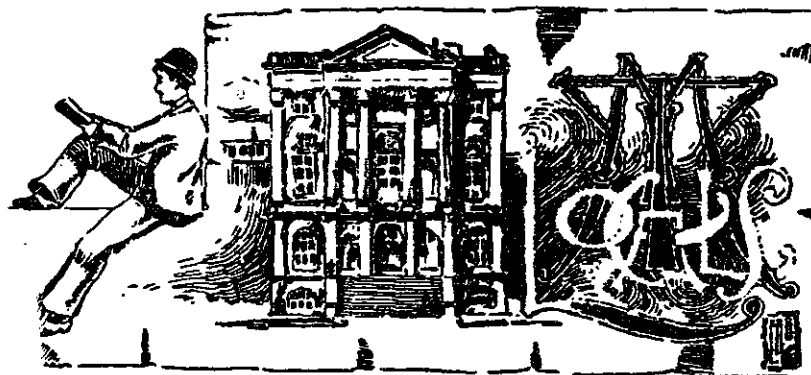
Now this did not suit me at all, for my sister had a girl friend from New Hampshire coming to stay with her for a few days, so as to do some shopping in Boston before leaving for a winter in the Western States. I had

never seen this young lady although, by my sister's accounts, she was very attractive, and my work would not allow me to return from the city till late in the evening, so late, in fact, that I could not even call on the girl.

Next morning when I got on to the train, after a night at Howard's room, in my usual way with a few seconds less than no time to spare, and dropped into the nearest seat to cool off, I became aware of a very pretty girl across the aisle from me. When I first looked at her, she half smiled as if she had met me at some time before, and of course I smiled back. Then she seemed to decide that she didn't know me after all, and apparently gazed vacantly out of the window, but in reality did not. Well, next morning I saw her again, and again she seemed to know me, and of course I bowed and said, "Good morning." Next day I sat back of her going up to the city, and again she seemed in doubt as to the desirability of my acquaintance; but I was now fully convinced that I was conducting a very successful flirtation.

The morning after that I was buttonholed by a business acquaintance, who kept me busy in the smoking car, all the way to Boston; but when I was able to leave him on the platform at the Union Station, there was my charmer struggling to manage a huge dress suit case. She cast an appealing glance at me, and of course I responded and sprang to help her. Then I caught sight of the name on the case, and the full significance of the thing dawned on me. The name was my own, and it didn't take me long to guess that the girl was my sister's friend. I dodged an incoming train, and got out of sight somehow or other.

That night my family received a telegram saying that I had been called to Worcester unexpectedly, and that I should be away for several days. And the worst of it was that the girl told all about it. My sister has promised that the next time she has visitors, she will give me an introduction to them before she gives them a description of me.



Nathan Burrill, '98, will not return to the Institute.

Henry P. Rolfe, '98, will not return to the Institute until next year.

The Sophomore election will take place to-morrow in Roger's corridor.

Campbell, formerly of Course II., has joined Course IX. Second-year.

E. H. Durgin, Course IX., 1900, last year, has entered Harvard, Class of 1901.

Professor Bates is giving one of Professor Wendell's courses at Harvard this year.

Lenoir C. Church, Course IX., 1900, last year, has entered the Freshman Class at Leland Stanford University, in California.

A constitution was adopted at a recent meeting of the Massachusetts Institute of Technology Association of Glee, Banjo, and Mandolin Clubs.

Twenty-five students are now attending the Institute upon the Wheelwright Fund. There are eight new members in the Freshman Class.

Mr. F. B. Perry, '98, is Secretary of the Musical Clubs, and Mr. B. P. Hazeltine is Vice President, instead of *vice versa* as was announced last week.

On Monday morning, Professor Sedgwick and Mr. Stiles delivered interesting lectures, before the Biological Journal Club, on the "Formation of Fats in the Animal Body."

The Architectural library will soon be enriched with duplicate copies of various hand-

books and histories, and also with a collection of volumes for general reading on Architectural subjects.

The drawings for the tournament have been made and posted by the Tennis Association. Players are requested to arrange their own matches, and to report the results upon the bulletin at the courts.

The leaders of the musical clubs report a very good aggregation of candidates, from among whom they are to select the men who will compose the various clubs this year. Rehearsing is under way in earnest.

A meeting in the interests of the reorganization of the Walker Club is soon to be called. Among the things to be considered is that of the annual play. This, as is the custom, will probably be given during Junior Week.

The following men are the candidates from whom the Glee Club will be recruited this year: Rockwood, Taft, Patch, Benson, Whiton, Davis, Campbell, Brooks, Boush, Gray, Nelson, Pierce, Martin, Miller.

Mr. George W. Blodgett, Electrician of the Boston and Albany Railroad, and Lecturer at the Institute, has begun his course in Railroad Signals. Last Monday the class met at Cottage Farm, and studied the signaling arrangements in the neighborhood.

As a result of Professor Sedgwick's words to the Sophomore Class, the Freshman class meetings have been the quietest ever known at the Institute. In memory of President Walker this spirit will be perpetuated, together with those other undying associations of him.

The following list of officers were elected by the Class of '99 last Friday: K. M. Blake, President; A. L. Hamilton, First Vice President; C. Renshaw, Second Vice President; M. S. Sherrill, Secretary; W. S. Newell, Treasurer; A. R. Holliday, J. Stone, Executive Board; H. L. Morse, J. A. Patch, Institute Committee.

The Senior election held last Friday resulted as follows: President, C.-E. A. Winslow; First Vice President, H. H. Fisher; Second Vice President, O. Mayer; Secretary, L. D. Gardner; Treasurer, H. K. Conklin; Executive Committee, E. S. Chapin, L. Alland; Institute Committee, G. A. Hutchinson, R. Allyn.

The Architectural Society held a meeting last Thursday, and elected the following officers for the ensuing year: President, H. K. Conklin, '98; Vice President F. F. Ferguson, '98; Secretary, A. S. Kean, '98; Treasurer, L. A. Field, '99. It is the intention of the new administration to entirely revise the constitution and begin on a new basis. The Smoke Talks and Bohemian dinners, characteristics of the society, will be continued this year.

The M. I. T. Y. M. C. A. starts its Bible study classes for the first half year this week. The classes meet in the Y. M. C. A. building and are three in number. One for Seniors and Juniors, on the "Book of John," and led by C. Nickerson, '98, meets at 8.00 A. M., on Thursdays. That for Sophomores, on the "Life of Paul," led by A. A. Reimer, '00, meets at 8.00 A. M., Tuesdays, while the Freshman Class, on the "Life of Christ," led by R. C. Thomas, meets on Saturdays at 8.00 A. M. All students at Technology are cordially invited to join.

The first meeting of L'Avenir for this term was held last Friday in Room 26, Walker, with a large attendance. The following officers were elected for the ensuing year: President, G. L. Smith, '99; Vice President, G. E. Lynch, '99; Secretary, B. W. B. Greene, 1900; Treasurer, C. M. Lewis, '99; Member of the Executive Council, C. T. Leeds, 1900. A committee, consisting of G. T. Cottle, Chairman, B. W. B. Greene and G. L. Smith, was appointed to revise the Constitution of the Society. Meetings will be held on Wednesdays instead of Fridays during the coming season.

The work in Gas and Oil Analysis of Course V. has been greatly facilitated by recent changes. Two rooms, 36 and 38 Walker, were formerly devoted to this department, whereas under the new arrangement 38 only is used. The labor of instruction is thus diminished, while its benefits are increased. Another improvement is the use of separate desks and apparatus for each student; which improvement can be best appreciated by those who have worked under the "communist" system. A lecture room with seating capacity of twelve has been fitted up in connection with the laboratory, and the equipment of the department has been enlarged by a Junker calorimeter, for determining the heating power of gases.



'73. Mrs. E. H. Richards, Course V., recently served as one of the judges on a jury of awards at the Tennessee exposition.

'77. Mr. J. E. Hardman, Course III., has a position as consulting mining engineer in Quebec.

'83. Mr. W. B. Fuller, Course I., has accepted a position as resident engineer with Allen and Hayes, consulting engineers of New York.

'83. Mr. R. W. Scott, Course II., is acting as manager of the Philadelphia Engraving Co.

'85. Mr. David Baker, Course II., has accepted a position as superintendent of the Metallurgical departments of the Maryland Steel Works.

'90. Mr. J. F. Baker, Course VI., recently formed one of a quartette, of which Miss Mabel McKinley was also a member, which sang at the president's reception at Adams, Mass.

'90-94. The engagement is announced of Miss H. T. Gallup, '94, Course V., to Mr. Darragh de Lancey, '90, Course II.

'94. J. E. Thropp, Jr., Course III., has been promoted from superintendent of Everett Furnace to general manager of Everett Furnace, Kearney Coal and Coke Works.

'95. Mr. Frank Bird Masters, Course II., has accepted a position as instructor in Free-hand and Mechanical Drawing in the Boston Mechanic Arts High School.

'96. The engagement is announced of Mr. John Luther Putnam, Course VI., to Miss Ida M. Smith, of Kalamazoo, Mich.



The football team will play Campello A.C. at Campello, on Saturday, the 23d.

The winners on October 30th will elect a permanent captain for the Track team.

Last season's bicycle riders, Chase, Edson, Harrison, and Gurney, are all back this fall.

It is expected that two members of the entering class, Burnett (Yale '97), and Hubbard (Harvard '97), will cover the hundred in fast time.

Wentworth, 1900, one of last year's most promising all-round athletes, is out again this year. His work, especially in the hurdles, will be watched with interest.

L. P. HOLLANDER & CO.,

Makers of the

HIGHEST GRADE CLOTHING
IN THE MARKET.

SACK SUITS, of Tweeds and Homespuns, \$20, upward.

OVERCOATS, from all Fashionable Materials, \$25, upward.

DRESS SUITS, Silk Lined, \$35 to \$45.

FURNISHING GOODS. HATS AND CAPS.

10 Per Cent Discount to Members of the Co-operative Association.

202 to 212 Boylston Street, and Park Square, Boston.

SHOES.... for Young Men.

New Fall Styles.

Newest Shades.

Newest Shapes.

\$4.00 UP.

Ten Per Cent Discount to Students.

HENRY H. TUTTLE
AND COMPANY.

Corner Washington and Winter Streets,
BOSTON.

TRINITY COURT CAFE,

175 Dartmouth Street.

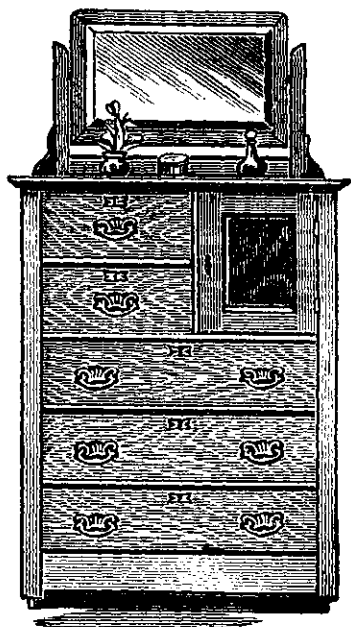
TABLE D'HOTE, BREAKFAST, LUNCH AND DINNER.
Everything First Class.

✻ BAR CONNECTED ✻

Choice Wines and Cigars. Liberal Discount made
to Tech. Students by the week.
Give us a call.

JOSEPH LEE, Manager.

COLLEGE FURNISHINGS.



The child is father to the man, and the dull trade of last year could only result in the low prices which we are quoting to-day. Never has there been such an opportunity for furniture buyers as this season.

Take this Chiffonniere as an example. It is not exceptional in any way; it is simply a fair average of the bargains we are now offering. The price had never been less than \$15 until last year, when it dropped to \$13. To-day it is

ONLY \$8.75.

It is extra large size, and splendidly built, with a large locked closet, two deep toilet drawers, three wide bureau drawers, a broad top, a 22-inch bevelled plate-glass mirror (adjustable), and complete appointments.

The wood is the first selection of tough white oak in antique finish. All the drawers have separate locks. The inside finish is dustproof. Burnished brass trimmings. Extra stout castors.

Paine Furniture Company,
48 CANAL STREET.

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.

Second door from Berkeley Street.

E. O. SABINE,

Ladies' and Gents' Dining Room

21 MEAL TICKETS, \$5.00.

Nos. 202 and 204 Dartmouth Street.

W. J. CONKLIN & CO. Apothecaries,

Conklin's Corner, Columbus Ave. and Dartmouth St.

DRUGS.
CHEMICALS.
TOILET ARTICLES.
NOTE PAPERS.
CANDIES.
SODA.
CIGARS.

Specialties.

Albaderma, guaranteed to cure
Chapped Skin at one application.

Conklin's Cough Cure,
guaranteed to cure Cough.

Conklin's Tooth Powder,
the Best on the Market.

Cold Cream.

SUB STATION P. O. No. 17.

Discount to Tech. Students.

The Tennis Tournament promises to be a success. Latest results are as follows: Preliminary round—Burch defeated Professor Clifford, 6-1, 6-0; Lansingh defeated Howe, 6-1, 6-2; Foster defeated Allyn, 6-3, 6-4. First round—Weeks defeated Johnson, 6-3, 6-3; Ayer defeated Price, 6-0, 6-0; Street defeated Shepard, 6-1, 6-2.

Eight men appeared in answer to the call of candidates for the 1900 Class team: Captain Angus, Knight, Gauss, Emerson, Mackintyre, French, Gage, and Moulton. The team is much weakened by the loss of Miller, Jouett, and Oppenheim, who are playing on the 'varsity squad. More men are expected to come out in the next few days.

The second run of the Hare and Hounds Club took place Saturday at the Chestnut Hill Reservoir. Fewer men ran than on the

preceding Saturday, but the falling off in numbers was undoubtedly due to the extreme heat, rather than to a lack of interest on the part of the members of the association. The hounds lost their trail frequently, and as a result the hares, Hall and Ritchie, gained ten minutes on the six-mile course.

SOME BORROWED WIT.

The correct thing in cuff buttons for golf players is links.—*Harvard Lampoon*.

NO LIGHT MATTER.

Queen Mary (at the burning of a heretic): "What are the people laughing at?"

Prime Minister: "The martyr has just observed that they are making light of him."

—*Yale Record*.

HAWICK TWEEDS

—IN—

Young Men's Suits for This Season, \$20, \$22, \$25.

We have imported these textures in great variety from the Mills in Scotland, and have fashioned them into Young Men's Suits, that are the acme of the tailor's art; the material being both double and twisted, is exceedingly tenacious, practically untearable, finished both sides alike, and entirely unelastic.

The Shades, principally in Browns, Olives and strikingly attractive dark colorings, exemplify the mode for this season, while the interiors are high grade in all points which relate to trimmings, silks, sewings, and perfection and thoroughness of workmanship.

\$20, \$22, \$25.

NOTE.—All garments manufactured by us bear our full name and designation on the etiquette, as follows:

A. Shuman & Co. Washington and Summer Sts.
Boston



A YOUNG friend of the Lounger's on entering the office last Thursday afternoon closed the door behind him with an abruptness and a violence which caused the layer of September dust upon the dictionary to rise in a thick cloud. The Lounger, after a few of the usual well-chosen words with which he is wont to admonish the indiscreet, asked the cause of this manifestation of ill humor, and learned the following sad story.—His young friend appreciates to the full, a temporary relaxation from routine and he had started out that morning with pleasant anticipations anent the afternoon's holiday. He even paused to secure a short renewal of the patent upon his leathers, which had miserably expired on the previous Sunday through much chasing of golf balls over dusty fields. At last, filled with fond thoughts of the afternoon's business on Beacon Street, he journeyed to the last recitation of the day in the upper regions of Rogers. All went merry as a married belle, as the saying has it, till the saturnine pedagogue, so favored of Sophomores in the study of Descrip., announced in a few incisive words that, since recitations were suspended for the afternoon, he would distribute the plates to be done at home and handed in next morning! Thus were the poor Sophomore's expectations nipped by a killing frost. Thus was the cause of justice, of health, of honesty, of true love in fact, hopelessly betrayed. And it is, the Lounger does assert, just such small actions which make the Technology student feel that his Instructors (some of them) are men who would sell their ancestor's bones for phosphates. Meanwhile the poor Soph. did his work but ill, his mind filled with thoughts of what the afternoon might have been for him—and for her.

Of the exercises last Thursday evening, the Lounger enjoyed the preliminary gathering in Bumstead Hall out of due proportion. This was the first opportunity

of the year to examine the student body as a whole, and to diagnose the diseases which attack special portions of it. The macrocephalous condition of '98 was particularly noticeable. The number of young men wearing frock coats (palpably for the first time) was very large, and potential hirsute adornments carefully nursed for Class Day began to make their appearance. One distinguished Senior was recently discovered by the Lounger gazing with a sad look of wistful longing into a mirror. The Lounger asked what was the matter, and the Senior muttered something incoherent about his "moustache." "O well," replied the Lounger, kindly, "you needn't feel down in the mouth for a long time yet." The Senior went away looking for some reason sadder than ever.

The Lounger, in speaking of The Memorial Exercises, wishes to compliment the Faculty upon the quiet, orderly, gentlemanlike and eminently respectable behavior that characterized them throughout the evening.

The Lounger has a certain conservative tone of mind which leads him always to avoid the untried, and he has thus heretofore avoided that blatant novelty, the Tureen.

Last week, however, he gave it a trial and was agreeably surprised. The newness is so skillful that it really does not show; and, indeed, the Lounger found a cozy nook which recalled more vividly his one-time haunt, the Hofbräu in Munich, than any hostel on this side the water. A flood of memories were awakened in the Lounger's brain of the various spots in the world where he had sat at small round tables and watched the stream of life flow by. What a place for a philosopher is the café. Here are a dozen men all doing apparently much the same thing. Yet each in a moment of relaxation is shaping some plan for the dim future or dreaming of some face in the far distance. That Freshman over there who has been mixing incongruous beverages all the evening and is now growing rather over-vivid in speech and gesture, pulls out his watch and as his eye falls on the commonplace amateur photograph in the case, he quiets down and soon leaves the room. That dyspeptic young fellow near the door who is combining frozen pudding with soft shell crabs will probably have a nightmare later; but at present he is dreaming of something very pleasant, by the soft droop of his dark eyes. The Lounger himself grows pensive over his mug of musty ale. He seems to be lying lazily on a hilltop looking out over wide, brown, meadows through which a distant river winds; and beside him is a slim girl with clear, gray eyes looking out into the distance. Far, far, over the meadows sound faintly the shouts of the hay makers; but on the hilltop the Lounger is silent.

Established 1828.

CHAUNCY-HALL SCHOOL

HAS LONG MADE A

SPECIALTY OF PREPARATION FOR
TECHNOLOGY.

REFERENCE is made to the President and Secretary of the Institute 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.

Regular Grammar and High-School
Courses, fitting for Business
and for College.

438 Boylston Street, - - Boston, Mass.
(OPPOSITE THE INSTITUTE)

TAYLOR, De MERITTE & HAGAR,
PRINCIPALS.

If You Draw,

PURCHASE YOUR . . .

Drafting Instruments,
Drawing and Blue Process Papers,
Scales, Triangles, Curves,
T Squares, Colors, etc.,

FROM THE MANUFACTURERS.

Wadsworth, Howland & Co.,

INCORPORATED,

218 CLARENDON STREET.

Main Office: 82 & 84 Washington St., Boston.

Factories: Malden, Mass.

SPECIAL RATES TO STUDENTS.

FOR TECH. STUDENTS

Fall and Winter Shoes,

\$4.00 \$5.00, and \$6.00 per pair,
Members Co-operative Society.

10 per cent off to Tech. Students.

Thayer, McNeil & Hodgkins

47 Temple Place, Boston.

HAVE YOUR

Trousers or Suit

Pressed by

TURNER,

268 Boylston Street, Boston.

FINE TAILORING.

Clothing Cleansed, Repaired, and Pressed in a Thorough Manner at Low Prices to Students.

ALBERT BENARI, Tobacconist,

43 TREMONT STREET, - - BOSTON, MASS.

Agent for the Bohemian Mixture.

FINE LINE OF FRENCH BRIAR PIPES ALWAYS
ON HAND.

WRIGHT & DITSON, New England's Leading Athletic Outfitters,

Offer every requisite in FOOTBALL SUPPLIES, UNIFORMS, SHOES, PROTECTORS, SWEATERS, ETC.

Managers should write for samples and special rates before purchasing.
THE SPALDING OFFICIAL FOOTBALL.

Adopted by Harvard, Yale, Princeton, Pennsylvania, Cornell, and all other leading universities. Each ball tested and packed, and sealed in separate box with brass inflator. Price, \$5.00. Spalding's Official Football Guide for 1897. Edited by WALTER CAMP. Postpaid, 10 cts.

GYMNASIUM SUITS AND EQUIPMENTS.

Catalogue of Fall and Winter Sports free.

WRIGHT & DITSON,
344 Washington Street, - - BOSTON, MASS.

New Tech Pin.

HENRY GUILD & SON

Have the best Tech Pin yet for 75 cents; also a combination of gold and silver for \$1.00, and Solid Gold at \$3.00. For sale at the Institute and

433 Washington St., Boston.

First Class Laundry Work, Shirts, 8 and 10c. Collars and Cuffs, 1c.

Popular Styles and Prices in Neckwear, Collars and Cuffs, White and Fancy Shirts, Hosiery, Underwear, etc.

Castle Square Men's Outfitter,

465 Tremont St., opp. Compton, Boston, Mass.

CLASS-DAY INVITATIONS,

BLANK BOOKS, FOUNTAIN PENS,

CAN BE FOUND AT THE CO-OPERATIVE STORE,

H. H. CARTER & CO., 5 Somerset St., near Beacon.

Priest's • DINING ROOMS •

No. 102 Dartmouth Street.

•• PRICES ••

Full Ticket, 21 Meals	\$4.00
Breakfast and Dinner, 14 Meals	3.00
Breakfast, 7 Meals	1.50
Mid-day Dinner, 7 Meals	1.20
Dinner, 7 Meals	1.75

STUDENTS

Are cordially invited to inspect our work, which is a model of neatness, and artistically done. None but competent men employed.

Your patronage is respectfully solicited.

ERNEST M. ALEXANDER,

Copley Square Hotel.

Hair Dressing Parlor,

Cor. Exeter Street and Huntington Ave.

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.



Scientific Books

DAMRELL & UPHAM,
The Old Corner Bookstore,
283 Washington St., Boston.

CAREY, TEACHER OF DANCING.

212 BOYLSTON STREET, HOLLANDER BUILDING.

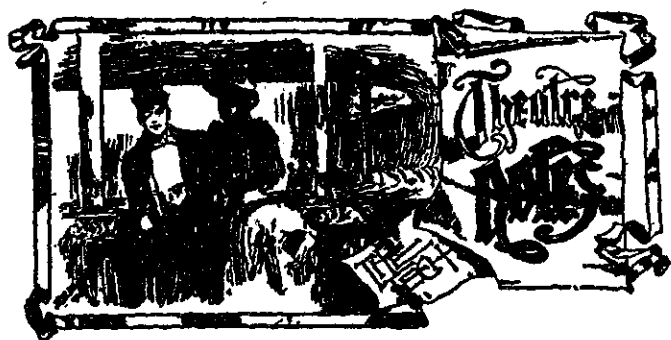
Most convenient location in the city. Classes
for Beginners and Advanced Pupils.

PRIVATE LESSONS.

Bookbinding

IN EVERY STYLE

ALEX. MOORE, 3 School Street, BOSTON.



Week beginning October 25, 1897.

Hollis Street Theatre.—The Broadway Theatre Opera Company will be at the Hollis for one week in an entirely new comic opera called "The Highwayman," by De Koven and Smith. The company is unusually good, and the opera is said to be full of bright music.

Boston Museum.—"The Sign of the Cross" is proving as great a success this year as last. The play is founded on a strong religious theme, and is the first of that kind to prove a success. Charles Dalton, at the head of the company, is keeping up his good work.

Castle Square Theatre.—Pinero's play, "Sweet Lavender," will be given this week by the

excellent stock company at the Castle Square. Miss Lawrence, Mr. Gilmore and all of the company have become the greatest of favorites in Boston by their careful and conscientious work.

Tremont Theatre.—De Wolf Hopper is again presenting Sousa's bright and melodious opera, "El Capitan." Mr. Hopper is supported by the same fine cast and chorus, and the opera is presented on a scale of augmented splendor.

Boston Theatre.—Fanny Davenport has opened her engagement this week in a new play by an American author. Miss Davenport is supported by an unusually good company.

Park Theatre.—The latest London novelty and New York success, "The Girl from Paris," will begin the third week of its engagement at the Park. It is unusually bright, and is full of spirit and dash.

The Food Fair.—Besides the attractive samples and souvenirs at the Food Fair the Salem Cadet Band concerts afternoon and evening and the Hungarian Gypsy Band will be an unusually fine treat.

The Zoo.—The little Eskimo sisters have jumped into popularity at the Zoo. They hold hourly receptions, and these are always crowded affairs. Besides these are numerous other attractions.

Miss Post's School

... FOR ...

INSTRUCTION IN DANCING

At Pierce Hall, Copley Square, will
Reopen in October.

PRIVATE LESSONS A SPECIALTY.

Prospectus forwarded upon application.
Office Hours: 9 till 11, daily.

Good Form

Is required in Wedding and Visiting Cards.
See our styles.

CARD PLATE AND 50 VISITING CARDS, \$1.50

SAMUEL WARD COMPANY,

49 Franklin Street, Boston.

SIX FLOORS OF STATIONERY.

THE Union Gymnasium

48 BOYLSTON ST. (near Tremont).

PRACTICAL.

Complete
Modern
Apparatus.

Popular
Classes.

Terms,
\$5 and \$8
per Year.



POPULAR.

Extra
Large
Lockers.

Competent
Instructors.

No Extra
Charge
for Instruction

BOSTON YOUNG MEN'S CHRISTIAN UNION.

WM. H. BALDWIN, Pres.

GEORGE PEIRCE, Sec'y.

HIBBARD & MASON

(INCORPORATED)

Tailors,

MUSIC HALL PLACE,

Telephone 579.

Off WINTER STREET.

BOSTON.

DRESS SUITS, SILK LINED, TO ORDER, \$45

Dress Suits to Let.

M. I. T. UNIFORMS TO ORDER, \$12.00,

QUALITY AND FIT GUARANTEED.

Fall and Winter Stock Now Ready. & Everything New and Stylish for Young Men.

The Single-breasted Sack Coat, with Double-breasted Vest, will be very fashionable this Season.

The Short Top Coat, some with Strap Seams and Patch Pockets, will be the Correct Overgarment.

NO ADVANCE IN PRICE ON ACCOUNT OF THE NEW TARIFF.

**NEW STYLES MEN'S SUITS, 15 Styles, New Colors and Patterns,
\$10.00, Elsewhere, \$15.00.**

Beautiful Suits at \$15.00, \$20.00, and \$25.00.

Equal to the Best Custom Make.

Best Values in Boston. Prove the truth of this statement by examining them for yourself. Don't forget our location in the Wholesale District,

Nos. 67 and 69 SUMMER STREET,

One minute's walk from Washington Street, Sign of Illuminated Clock.

Spitz Bros. & Mork, Manufacturers, Wholesalers and Retailers.



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.

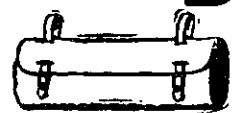
ALLEN & GINTER

THE AMERICAN TOBACCO CO., SUCCESSOR,

Manufacturer,

RICHMOND, VIRGINIA

FOR THE
BICYCLE.



**DON'T RIDE WITHOUT
A REPAIR KIT.** FOR YOU.



POND'S EXTRACT is unequalled for quickly healing all kinds of WOUNDS, BRUISES, LAMENESS or RHEUMATISM.

Rub thoroughly with POND'S EXTRACT after every ride to keep the muscles supple, pliant, strong. Try POND'S EXTRACT OINTMENT for PILES.

AVOID SUBSTITUTES—Weak, Watery, Worthless.

POND'S EXTRACT CO., 76 Fifth Ave., New York.

50 YEARS'
EXPERIENCE.



TRADE MARKS,
DESIGNS,
COPYRIGHTS &C.

Anyone sending a sketch and description may quickly ascertain, free, whether an invention is probably patentable. Communications strictly confidential. Oldest agency for securing patents in America. We have a Washington office. Patents taken through Munn & Co. receive special notice in the

SCIENTIFIC AMERICAN,

beautifully illustrated, largest circulation of any scientific journal, weekly, terms \$3.00 a year; \$1.50 six months. Specimen copies and HAND BOOK ON PATENTS sent free. Address

MUNN & CO.,
361 Broadway, New York.

Frank Wood,
Printer,
352 Washington St.,
Boston.

President,
T. E. TALLMADGE, '98.

Vice Pres. and Bus. Mangr.,
G. C. WINSLOW, '99.

M. I. T. CO-OPERATIVE SOCIETY.

Managed by students of M. I. T.

Proceeds devoted to scholarships.

The Co-operative Supply Rooms

Handle a full line of Drawing Materials and Text-Books at low prices.

A CO-OPERATIVE SOCIETY MEMBERSHIP TICKET entitles the owner to discounts on goods bought from any of the tradesmen in the Society's Handbook.

Established 1843.

Incorporated 1895.

"STUDENTS," ATTENTION!

LARGEST STOCK AND LOWEST PRICES

... ON ...

MATHEMATICAL INSTRUMENTS

AND DRAWING MATERIALS OF ALL KINDS. PICTURE FRAMING A SPECIALTY.

FROST & ADAMS COMPANY.

IMPORTERS AND WHOLESALE DEALERS,

37 CORNHILL, - - - - - BOSTON.

"SPECIAL RATES TO COLLEGES."

NEW ILLUSTRATED CATALOGUE FREE.

CLUBROOMS.

252, 254 Boylston St.,

OPPOSITE SUBWAY ENTRANCE.

Steam Heat. Excellent Light.

Apply to

WHITCOMB, WEAD & CO.,

Devonshire Building - 16 State Street.

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.

Elmer Chickering,

The Leading Photographer.

SPECIAL RATES TO STUDENTS.

THERE is not a photographer in New England who has been more successful than Elmer Chickering, of No. 21 West Street, and people who desire to have first-class photographs taken, of themselves, or of their friends, should go to this gallery. His success in the business is wonderful. His pictures are admitted to be exact reproductions of the subject, and are remarkable for their clearness and fidelity in detail. Among his patrons are the leading citizens of the United States, including presidents, governors, mayors, and others prominent in official lines, the highest military officers, the most prominent opera singers, the leading actors and actresses. Far and near his pictures are known. In Europe as well as America they are highly admired. Mr. Chickering is a host in himself, but with good judgment he has surrounded himself with a corps of operators and assistants in his operating rooms who have no superiors, while in his office is to be found young lady attendants who thoroughly understand how to please patrons, and by their uniform courtesy add much to the popularity of "Chickering's Studio."

ESTABLISHED 1889.

A. H. MATZ & CO.,

Merchant Tailors,

431 Columbus Ave., Next to Plaza Hotel.

We show a fine line of the best New York and London Specialties, in Suitings, Overcoatings, Bicycle Costumes, etc.

**Special Discount
to Students,**

many of whom we count among our customers. All work done on the premises.

**Cleansing, Pressing, and Repairing
Neatly Done.**

OPEN EVENINGS.



THE FLETCHER CO.
COLLEGE OUTFITTERS
158 BOYLSTON ST.
BOSTON MASS.

HATS, CAPS, GLOVES.
Dress, Fancy and Negligee Shirts to order.
Very Best Laundry Work.
Called for and delivered.
—M. I. T. Discount—