

HE TECH



SHE: "I simply adore football players. Do you play, Mr. Noodle?"

MR. N. (who knows nothing of the game, but is anxious to be adored): "Oh-ah-!
Y-yes. I played center on Harvard last year."

VOLUME XVII.

NUMBER 4.

OCTOBER 28, 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.

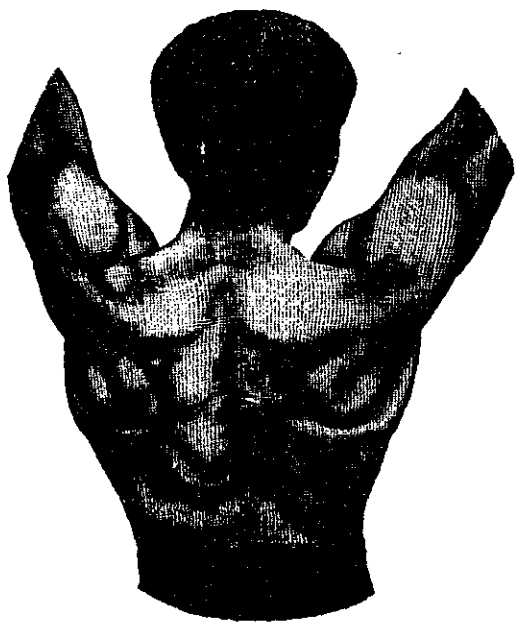
NELSON L. MARTIN.

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, Breakfast40
" " Dinner . . .	5.00	" Luncheon25
" " Breakfast . . .	2.50	" Dinner50
" " 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.**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.

TRADE MARK

COLLINS & FAIRBANKS
CELEBRATED

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

STYLES CORRECT
QUALITY UNEQUALLED

381
WASHINGTON ST. BOSTON



Messrs Brooks & Co.
Importing Tailors

15 MILK STREET.
OPPOSITE OLD SOUTH CHURCH.

LONDON OFFICE, 6 SAVILE ROW.

BIRTHPLACE OF FRANKLIN.

THE LARGEST ASSORTMENT OF FOREIGN WOOLLENS SHOWN IN BOSTON

M. I. T. CO-OPERATIVE.

THE TECH

VOL. XVII.

BOSTON, OCTOBER 28, 1897.

NO. 4.

THE TECH

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

JOHN MAGEE, '99, *Editor in Chief.*

MORGAN BARNEY, 1900, *Assistant Editor in Chief.*

THOMAS EDDY TALLMADGE, '98, *Secretary.*

CHARLES-EDWARD AMORY WINSLOW, '98.

GERALD MARTIN RICHMOND, '99.

CLARENCE RENSHAW, '99.

P. R. BROOKS, 1900.

W. R. STRICKLAND, '98, *Business Manager.*

M. DAVENPORT, 1900, *Assistant Business Manager.*

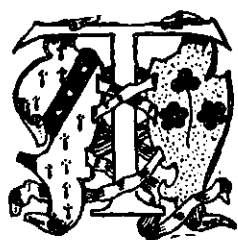
Subscription, \$2.50 per year, in advance. Single copies, 10 cts. each.

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.



THE recent election of Professor Crafts to the presidency of the Massachusetts Institute of Technology comes as a great surprise to the public in general, and to the student body in particular. The impression that our new president was to be recruited from the ranks of public life, rather than from the educational world,—already so well represented at Tech.,—was current; and although the unexpected has happened, the choice is undoubtedly a good one. Following, as he does, one of the noblest and mightiest lights of the educational world,—one of the most genial natures that has ever existed, one whose memory will continue to live in the minds of the students, whom he so loved, long after they have ceased to be students,—President Crafts' task seems no easy one; but we feel sure that we can predict favorable results from the selection.



WE regret the apparent apathy with which 1900 looks forward to the annual cane-rush and football game with the Freshmen. These two contests have, in the past, been anticipated as the chief events of the opening of the school year, and every effort has been made by both Freshman and Sophomore to make his class the victor.

The indifference of this year's Sophomore Class is somewhat surprising, especially when we recall the enthusiasm with which, as Freshmen, they went in to beat '99 last year. Now, however, as the time approaches for them to show themselves worthy of upholding the traditions of the Sophomore Class, we find them perfectly contented to let half a dozen men try in vain to arouse sufficient enthusiasm over football to bring out men enough to make even a complete eleven. For the past week we have seen the not-too-edifying spectacle of a dozen Sophomores standing about the Gymnasium without energy enough to don a canvas jacket. If they expect to make even a creditable showing, it is time some of the thirty men that tried for the team last year came out for the eleven this year.

It is time also that a committee was appointed to superintend the preparation for the cane rush, and to select officers for it.

With last year's rush tied, the football game and the competitive drill with Brown lost, it would hardly do for 1900 to add to the score against them, by losing again this fall.



THE same old question of opening the windows in the lecture rooms of the Walker building to secure ventilation, has come up as usual, and the students have been informed that the rooms are better ventilated with the windows shut. They are also told, by way of emphasis, that the Institute buildings are well known for their fine system of ventilation, and that experts in the subject come here to examine the system. Now it is all very well to say that the system is good, but it is quite another thing to say that the installation in Walker building is a success. As a matter of fact the rooms are close and soon get to be dreaded by the students. It's all the more noticeable when the student comes back to Tech. after a summer spent in good, clear country air. Some investigation should be taken by those who have the matter in charge, and if the system needs enlargement, why not enlarge it?



IT may seem to upper classmen like harping on an old subject to advise Freshmen to use the Boston Public Library as much as possible. Nevertheless, there are many books which are of great use to Tech. men which cannot be obtained at the Institute library, and some for which there is such a demand at certain times, that it is hard to find them out of use. At these times the holder of a library card appreciates it. By application to the Institute office, a card can be obtained which arranges for the use of the Public library books by nonresident members. Without this card nonresidents cannot remove books from the library building. It is hard to overestimate the importance of this subject, and we hope all 1901 men will remember that "forewarned is forearmed."

Mass Meeting.

A MEETING in the interests of athletics was held Tuesday, Oct. 19. Vice President Morse urged men to come out for the Track team at once. He also read a letter from John Graham, stating the impossibility for Tech. men to do good work in athletics without spending more than two or three afternoons a week in training for a meet. As an instance of the benefit of steady gymnasium work he cited the case of Dartmouth, where nearly all the track men come from the gymnasium classes. Professor Sedgwick, in a short address, signified his willingness to support the Association in every way in his power. He said, however, that he believed the success of the Institute in athletics would come through individual effort, as in the case of track athletics, rather than through those branches which, like football, require large and expensive teams and unlimited time for their training. The report of the Committee on Physical Training was then taken up, and after some discussion it was decided to postpone the formation of an Advisory Council until after the Football Association and the Athletic Association shall have considered the report in detail. Another meeting will be called next Wednesday to take some action on the reports of the Athletic and the Football Associations. The report of the Committee on Physical Training represents the opinion of those who have carefully and conscientiously considered the needs of athletics at the Institute, and the necessity for a council which shall have power to direct and control our athletic policy. Such a council must, unless it be robbed of all authority and reduced to the position of a mere figurehead, to a certain extent antagonize present interests. It is to be hoped, however, that compromises will be made by both the Football and the Athletic Associations, and that an Advisory Council may be formed at the coming mass meeting with a constitution and by-laws that shall embody as nearly as possible the report of the Committee on Physical Training.

Tech., 16; Andover, 6.

THE cloud which has for so long hung over 'varsity football at Tech., has at last shown a brighter side. Our decisive victory over Andover on October 20th, broke the long series of defeats and drawn games that marks our football history. Let us now play to win instead of looking forward to a defeat, or at best a tied game.

In the first half, Nolte caught the ball on the kick-off and was downed on Andover's 65-yard line. The ball was then steadily advanced to Andover's 5-yard line, and Emery carried it over for the first touchdown.

The ball was in Tech.'s territory after the next kick off, but Nolte made a 45-yard punt that put their goal out of danger. The ball was again carried down to Andover's line, and was within half a yard of it when time was called. Score at end of half, 4-0; Nolte having failed goal.

In exactly one minute of the second half, Nolte made a touchdown and kicked goal. Andover, by hard work, finally scored by Baylis, h. b., carrying the ball over. Nolte again made a touchdown and kicked goal. Time was called with the ball on Andover's 10-yard line.

The line up was as follows: M. I. T.: Stebbins, l. e.; Heckle, l. t.; Le Bosquet, l. g.; Perkins, c.; Ulmer, r. g.; Osgood, r. t.; Chubb, r. e.; Nicholls, q. b.; Weaner, h. b.; Nolte, h. b.; Emery, f. b. Andover: Abbott, r. e.; Grinnell, r. t.; Holt, r. g.; Newton, c.; Foster, l. g.; Davis, l. t.; Matthews, l. e.; Howard, q. b.; Baylis, h. b.; Burdick, h. b.; Jennings, f. b.

Score—M. I. T., 16; Andover, 6. Touchdowns—Emery, Nolte 2, Baylis. Goals from touchdowns—Nolte 2, Davis. Timekeeper—Holliday, Tech., '99. Referee—Stearns, Amherst, '94. Linesman—Waddell. Time—20-minute halves.

Substitutes: Richardson, Nesmith, Jewett, and Macdonald.

In addition to Nolte's brilliant running and punting, Captain Ulmer's repeated gains through centre in the first half deserve especial notice. Osgood did some good tackling and Stebbins put up a plucky game. Both the ends and tackles did some quick work in getting down the field on kicks. Chubb at right also played a sharp, aggressive game.

Maine State, 14; Tech., 0.

LAST Saturday the 'varsity played Maine State University at Bangor, Maine. The team went up Friday night and returned Sunday morning. This is the longest trip a Tech. team has taken since the famous West Point trip of '94.

Maine kicked off and Nolte got the ball, but was quickly downed. Tech. then tried an end play, but the ball was fumbled and a Maine man got it and, with a clear field before him, carried it over for a touchdown. Tech. had slightly the best of it for the rest of this half, but failed to score, although at one time she had the ball on her opponents' 1-yard mark.

In the second half our men were outplayed. The whole team lacked aggressiveness and snap, while Maine easily made 5 and 10 yard gains through holes in the line. Maine scored two touchdowns and a goal in this half.

The following is the line up: University of Maine: Hussey, l. e.; Wormell, l. t.; Lawrence, l. g.; Bird, c.; Elliot, r. g.; Sturgis, r. t.; Palmer, r. e.; Webber, q. b.; Libby, h. b.; Ellis, h. b.; Sawyer, f. b. Technology: Richardson, r. e.; Osgood, r. t.; Ulmer, r. g.; Perkins, c.; Jones, l. g.; Heckle, l. t.; Stebbins, l. e.; Nichols, q. b.; Emery, h. b.; Morse, h. b.; Nolte, f. b.

Curtis replaced Nolte, who was slightly hurt in the second half. Curtis played full back on the B. A. A. team this year before its disbandment. Osgood and Heckle put up the best game for Tech.



THE same old question of opening the windows in the lecture rooms of the Walker building to secure ventilation, has come up as usual, and the students have been informed that the rooms are better ventilated with the windows shut. They are also told, by way of emphasis, that the Institute buildings are well known for their fine system of ventilation, and that experts in the subject come here to examine the system. Now it is all very well to say that the system is good, but it is quite another thing to say that the installation in Walker building is a success. As a matter of fact the rooms are close and soon get to be dreaded by the students. It's all the more noticeable when the student comes back to Tech. after a summer spent in good, clear country air. Some investigation should be taken by those who have the matter in charge, and if the system needs enlargement, why not enlarge it?



IT may seem to upper classmen like harping on an old subject to advise Freshmen to use the Boston Public Library as much as possible. Nevertheless, there are many books which are of great use to Tech. men which cannot be obtained at the Institute library, and some for which there is such a demand at certain times, that it is hard to find them out of use. At these times the holder of a library card appreciates it. By application to the Institute office, a card can be obtained which arranges for the use of the Public library books by nonresident members. Without this card nonresidents cannot remove books from the library building. It is hard to overestimate the importance of this subject, and we hope all 1901 men will remember that "forewarned is forearmed."

Mass Meeting.

A MEETING in the interests of athletics was held Tuesday, Oct. 19. Vice President Morse urged men to come out for the Track team at once. He also read a letter from John Graham, stating the impossibility for Tech. men to do good work in athletics without spending more than two or three afternoons a week in training for a meet. As an instance of the benefit of steady gymnasium work he cited the case of Dartmouth, where nearly all the track men come from the gymnasium classes. Professor Sedgwick, in a short address, signified his willingness to support the Association in every way in his power. He said, however, that he believed the success of the Institute in athletics would come through individual effort, as in the case of track athletics, rather than through those branches which, like football, require large and expensive teams and unlimited time for their training. The report of the Committee on Physical Training was then taken up, and after some discussion it was decided to postpone the formation of an Advisory Council until after the Football Association and the Athletic Association shall have considered the report in detail. Another meeting will be called next Wednesday to take some action on the reports of the Athletic and the Football Associations. The report of the Committee on Physical Training represents the opinion of those who have carefully and conscientiously considered the needs of athletics at the Institute, and the necessity for a council which shall have power to direct and control our athletic policy. Such a council must, unless it be robbed of all authority and reduced to the position of a mere figurehead, to a certain extent antagonize present interests. It is to be hoped, however, that compromises will be made by both the Football and the Athletic Associations, and that an Advisory Council may be formed at the coming mass meeting with a constitution and by-laws that shall embody as nearly as possible the report of the Committee on Physical Training.

Tech., 16; Andover, 6.

THE cloud which has for so long hung over 'varsity football at Tech., has at last shown a brighter side. Our decisive victory over Andover on October 20th, broke the long series of defeats and drawn games that marks our football history. Let us now play to win instead of looking forward to a defeat, or at best a tied game.

In the first half, Nolte caught the ball on the kick-off and was downed on Andover's 65-yard line. The ball was then steadily advanced to Andover's 5-yard line, and Emery carried it over for the first touchdown.

The ball was in Tech.'s territory after the next kick off, but Nolte made a 45-yard punt that put their goal out of danger. The ball was again carried down to Andover's line, and was within half a yard of it when time was called. Score at end of half, 4-0; Nolte having failed goal.

In exactly one minute of the second half, Nolte made a touchdown and kicked goal. Andover, by hard work, finally scored by Baylis, h. b., carrying the ball over. Nolte again made a touchdown and kicked goal. Time was called with the ball on Andover's 10-yard line.

The line up was as follows: M. I. T.: Stebbins, l. e.; Heckle, l. t.; Le Bosquet, l. g.; Perkins, c.; Ulmer, r. g.; Osgood, r. t.; Chubb, r. e.; Nicholls, q. b.; Weaner, h. b.; Nolte, h. b.; Emery, f. b. Andover: Abbott, r. e.; Grinnell, r. t.; Holt, r. g.; Newton, c.; Foster, l. g.; Davis, l. t.; Matthews, l. e.; Howard, q. b.; Baylis, h. b.; Burdick, h. b.; Jennings, f. b.

Score—M. I. T., 16; Andover, 6. Touchdowns—Emery, Nolte 2, Baylis. Goals from touchdowns—Nolte 2, Davis. Timekeeper—Holliday, Tech., '99. Referee—Stearns, Amherst, '94. Linesman—Waddell. Time—20-minute halves.

Substitutes: Richardson, Nesmith, Jewett, and Macdonald.

In addition to Nolte's brilliant running and punting, Captain Ulmer's repeated gains through centre in the first half deserve especial notice. Osgood did some good tackling and Stebbins put up a plucky game. Both the ends and tackles did some quick work in getting down the field on kicks. Chubb at right also played a sharp, aggressive game.

Maine State, 14; Tech., 0.

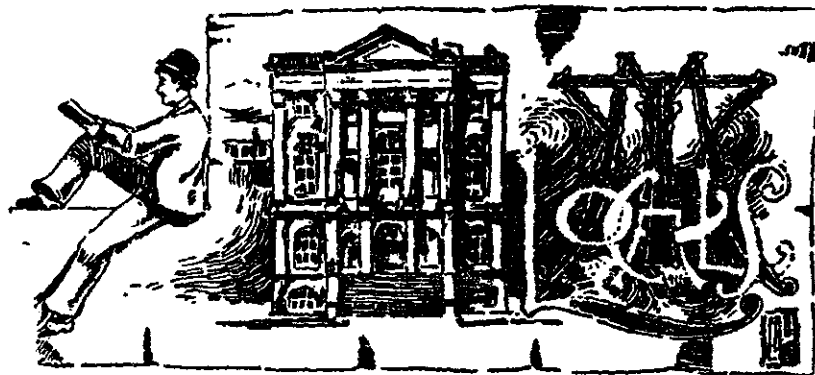
LAST Saturday the 'varsity played Maine State University at Bangor, Maine. The team went up Friday night and returned Sunday morning. This is the longest trip a Tech. team has taken since the famous West Point trip of '94.

Maine kicked off and Nolte got the ball, but was quickly downed. Tech. then tried an end play, but the ball was fumbled and a Maine man got it and, with a clear field before him, carried it over for a touchdown. Tech. had slightly the best of it for the rest of this half, but failed to score, although at one time she had the ball on her opponents' 1-yard mark.

In the second half our men were outplayed. The whole team lacked aggressiveness and snap, while Maine easily made 5 and 10 yard gains through holes in the line. Maine scored two touchdowns and a goal in this half.

The following is the line up: University of Maine: Hussey, l. e.; Wormell, l. t.; Lawrence, l. g.; Bird, c.; Elliot, r. g.; Sturgis, r. t.; Palmer, r. e.; Webber, q. b.; Libby, h. b.; Ellis, h. b.; Sawyer, f. b. Technology: Richardson, r. e.; Osgood, r. t.; Ulmer, r. g.; Perkins, c.; Jones, l. g.; Heckle, l. t.; Stebbins, l. e.; Nichols, q. b.; Emery, h. b.; Morse, h. b.; Nolte, f. b.

Curtis replaced Nolte, who was slightly hurt in the second half. Curtis played full back on the B. A. A. team this year before its disbandment. Osgood and Heckle put up the best game for Tech.



The Freshman eleven plays its first game at Lowell, on October 30th.

Mr. S. W. Shumaker was recently elected associate editor of '99's "Technique," in place of Mr. West.

For the benefit of students who wish to make up back work the Physical Laboratory is open to them on afternoons.

The Technology Club is contemplating a reception to be given in the near future to our new President, James M. Crafts.

The first drill was held in the Armory, on Wednesday, October 20th. The men were assigned to their respective companies, given a few instructions in the setting-up exercises and the facings, and were then dismissed.

The class in Industrial Biology, Courses V. and VII., '98, under the guidance of Mr. S. C. Keith, Jr., went on an excursion to a brewery last Tuesday. The process of brewing was made clear and the expedition was greatly enjoyed by all.

A mass meeting in the interests of general athletics is to be held next Wednesday at one o'clock in Huntington Hall. The question of the advisory council will be finally considered. It is hoped that President Crafts and Mr. F. H. Briggs of '81 will speak.

All members of the Class of '98, regulars, specials, and graduate students are cordially invited to make use of all privileges of the Technology Club until November 10th. This invitation was not extended to the class at the reception last Friday through inadvertence.

The wheelmen took a brief spin to Riverside and back last Saturday. The weather

was perfect, and the few who went enjoyed the trip greatly. Interest in this branch of pastimes is unfortunately slightly waning at Technology, as indicated by the reduced attendance of late.

In last week's TECH it was announced that Governor Wolcott was introduced at the Walker Memorial meeting by Mr. Munroe. As a matter of fact, the Governor was introduced by Augustus Lowell, Esq., Chairman of the Committee. We hope the readers of THE TECH will excuse the mistake.

During the summer extensive changes have taken place in the boiler rooms of the Rogers building. Where in years past three boilers have been doing the work, two are now used. It was thought that the two longest boilers were fully enough. The smaller boiler was accordingly taken out, and thus far the two remaining have done very satisfactory work.

The election of the class officers of 1900, held last Friday in Rogers building, resulted as follows: President, L. Stewart; 1st Vice President, W. J. Angus; 2d Vice President, H. D. Jouett; Secretary, C. M. Leonard; Treasurer, G. H. Belknap; Directors, T. W. Brigham and L. M. Lawrence; Institute Committee, M. Barney and S. G. H. Fitch.

The Class of '98 was entertained by the Technology Club on Friday evening, October 22d. The meeting was addressed by Mr. James H. Munroe, former Secretary of the Institute and President of the Technology Club. Dr. Dewey also spoke and gave a few words of greeting. About thirty-five members of the '98 Class were present. A supper was served, and music was furnished throughout the evening by an orchestra.

An important meeting of the Tech. Yacht Club was held last Thursday. Secretary Johnson was appointed Acting Treasurer, to fill the vacancy caused by the resignation of Treasurer Howard. It was voted to establish a Regatta Committee of three members, and

Messrs. Brigham, Barney, and Sturtevant were appointed. A committee was authorized to make arrangements for a dinner, to take place on the third Saturday of November.

Hon. John Cummings celebrated his eighty-fifth birthday at his home in Woburn, on the 19th of this month. His name is well known at Tech. as the name of one of the most sincere friends of the Institute, and we feel safe in saying that he has the congratulations of all Tech. men. Especially in the mining course is his work appreciated, for it is to him that we owe the foundation of the John Cummings Laboratory of Mining Engineering and Metallurgy.

The Seniors in Courses III., IV., and X., taking Professor Lanza's course in Applied Mechanics, were most pleasantly entertained at his home, 22 West Cedar Street, the evening of October 20th. The evening was spent in solving numerous puzzles, the collection of which is a hobby of the Professor's, and in singing college songs. Besides the large number of students present were a number of the faculty and their wives. Of the faculty present were Professors Pope, Richards, Niles, Chandler, Hoffman, Talbot, and Hough, and Mr. Fitzgerald, of the Corporation.

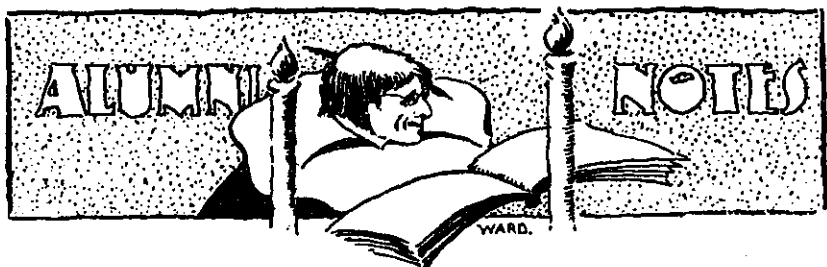
The first meeting of the Electrical Engineering Society, for the present year, was held Tuesday evening, October 19th. The meeting was a purely business one, for the registration of members, selection of a regular evening for meetings, election of a programme committee, etc. Mr. R. W. Conant, '91, of the West End Street Railway Company, will address the society at its first regular meeting, of which due notice will be given later in the corridor of the Walker building. All members of Courses VI. and VIII., of the three upper classes, are cordially invited to join the society. Applications should be made to Mr. C. S. High, '98.

The second meeting of the Freshman Class was held at Huntington Hall, Wednesday,

October 20th. The meeting was called to order by Bronson, chairman *pro tem.* The report of the last meeting was read by the secretary *pro tem.*, and accepted. On account of the small number present, the meeting was adjourned till 4 P. M., immediately after the drill. The meeting was called to order at the Armory by Chairman Bronson. The committee on forming a constitution reported that the work had been done, and the constitution was read. The class voted not to take a vote on the acceptance of the document, as a whole, but to take up the separate sections and vote on them at some future date. The meeting then adjourned.

The Lowell Institute Lectures for the present year are as given below. Each course consists of twelve lectures, two a week. Dates and information may be had at the secretary's office.

1. Plane Analytic Geometry, Professor Bailey;
2. Mechanism and Gearing, Professor Merrill;
3. Steam Engineering, Professor Miller;
4. Principles and Development of Chemical Theory, Professor Talbot;
5. Theory of Equations, Professor Woods;
6. Descriptive Geometry, Professor Faunce;
7. Organic Chemistry, Professor Noyes;
8. Analysis of Gases, Professor Gill;
9. Surveying and Leveling, Professor Robbins;
10. Development of Prose Fiction in France (in French), Professor Van Daell;
11. Analytic Geometry of Three Dimensions, Professor Bartlett;
12. Electro-Chemistry, Professor Goodwin;
13. Navigation and Nautical Astronomy, Professor Burton;
14. Metallurgy of the Minor Metals, Professor Hofman;
15. Hydraulic Propulsion, Professor Peabody;
16. Chemistry of the Less Frequently Considered Elements, Professor Bardwell;
17. Electrical Measuring Instruments, Professor Laws;
18. Algebra from Quadratic Equations, Professor Skinner;
19. Descriptive Astronomy, Professor Clifford;
20. Schiller's Leben und Werke (in German), Professor Vogel.



'70. Mr. L. F. J. Wrinkle, Course III., has accepted a position as mining engineer at Thebe, Mayo County, Cal.

'71. Mr. G. R. Lincoln, Course III., formerly instructor in Sanitary Chemistry at Tech., is at present traveling abroad.

'74. Mr. Herbert Barrows, Course I., is at Cedar Grove, Eldorado County, Cal., where he has a position as mining engineer.

'76. Mr. F. E. Galloupe, Course V., is in business in Boston as real estate and consulting engineer.

'81. Mr. J. H. Allen, Course III., is with the Maryland Mountain Copper Co. His address is Elizabeth, N. J.

'83. Mr. David Wesson, Course V., has gone out of the bicycle business, and is now employed as a technical chemist.

'84. Mr. P. S. Morse, Course III., is with the Arkansas Valley Smelting Works, at Leadville, Col.

'85. Mr. E. H. Dewson, Jr., is chief engineer of the Standard Air Brake Co., of New York.

'86. Mr. D. C. Anthony, Course III., is chief engineer of the Traders' Iron Co. of Chicago.

'86. Mr. A. S. Doolittle, Course V., is division superintendent of the Philadelphia & Reading R. R.

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.

'88. Clarence B. Vorce, formerly with the N. Y., N. H. & H. R. R. Co., has opened an office as Civil and Consulting Engineer. His address is, Rooms 101-103 Ballerstein Building, Hartford, Conn.

'89. Mr. Frank L. Pierce, who was famous as the anchor on the 'varsity tug-of-war team that pulled Harvard, was married Oct. 7, 1897, at Springfield, to Miss Florence McKnight.

'94. Mr. Clifton A. Howe, Course VI., is with the Boston Board of Fire Underwriters as inspector.

'97. Mr. W. C. Potter, Course III., and Mr. Thurlow Washburn, Course III., have been making a driving tour through the mining camps during the past summer.

'97. Mr. E. P. Brown, Course III., is employed with a Canadian Refining Co.

'97. William Binley, Course XIII., is studying naval architecture at Glasgow, Scotland.

'97. Edwin Sherrill Dodge, Course IV., is pursuing an extended course of study of architecture in Paris, France.

'97. Mr. Charles B. Breed, Course I., is employed in the Civil Engineering Department of the Boston and Albany Road.

'97. THE TECH regrets exceedingly its sad task in announcing the death of William Darlington, a special student in the Mining Course of '97. Mr. Darlington died at Slocan City, B. C., on the 15th of August, 1897, and was interred at New Denver, B. C. The funeral was at Slocan City, August 17th.

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.



Entries for Saturday's games close tomorrow morning. Those desiring to enter should place their names in the entry book attached to the bulletin board in the Gymnasium.

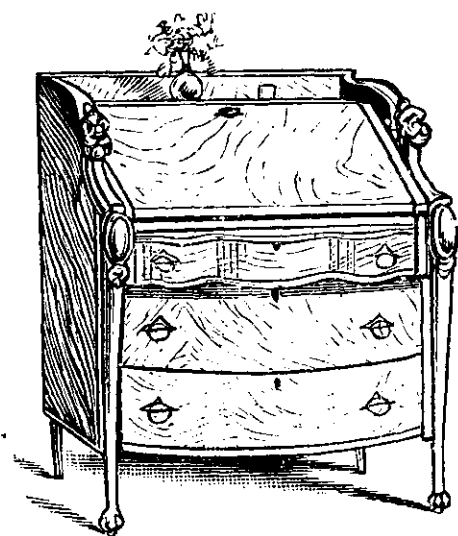
The third run of the Hare and Hounds Club was held at Milton last Saturday. Through the courtesy of Milton Academy, the Club used one of the rooms at the school for a dressing room. The course was through some very picturesque country, but was short because the scent gave out after covering

about four and a half miles. About twenty men ran.

The playing in the tennis tournament has shown a decided improvement during the past week. The tournament will probably be ended some time during this week. Nine pairs are entered in the doubles, which began on Monday.

At the last meeting of the Hare and Hounds Club the election of officers resulted in the choice of Mr. H. L. Morse as President, and G. C. Winslow as Secretary and Treasurer. It was decided to form a committee to draw up rules to govern the runs, and to arrange courses for this season. This committee is composed of Captain Morse, Secretary Winslow, Campbell, '99, Batchellor, 1900, and M. W. Hall, 1900. It was voted that in consideration of the character of the president's duties, his title should be changed to that of captain.

...DESK DIGNITY...



It costs but a few dollars to rise above all the herd of commonplace desks, and own something absolutely unique. Is it not worth this trifle to secure distinction in your furniture?

This desk costs a bare fraction more than the conventional designs which all the world buys. But it impresses its dignity upon the whole room.

The finish outside is the darkest of Flemish oak, and inside the very lightest of white oak. The color contrast (when the lid is down) is very striking.

The corner posts project about six inches beyond the front of the desk itself, and the sides project similarly above the lid. They are both richly carved. The lid, when closed, does not show an edge of division where it joins the top, but in a soft curve the line of the lid blends into the top.

It is one of the finest desks we have ever shown.

Paine Furniture Company,

48 CANAL STREET.

We are glad to see W. D. Hubbard, '98, in the field once more. Mr. Hubbard will be remembered as an old Worcester athlete.

Garrett, 1901, won the half mile Inter-scholastic Championship last year in the fast time of 2 min. 1 sec.

P. H. Dater was on the Williams Track team. He is this year eligible to represent Tech.

Professor Boos is thinking of forming a fencing club, if there are a sufficient number of applicants.

Book Notes.

"POLYHYMNIA: A Collection of Quartettes and Choruses for Male Voices." Compiled and arranged by John W. Tufts. 4to, 242 pp. Cloth. Introductory price, \$1.12. Silver, Burdett & Company, Publishers, Boston, New York, Chicago, Philadelphia.

SOME BORROWED WIT.

"I wonder," said the philosophical student, "why a fight is called a scrap." "Because it is a broken peace," replied the cheerful idiot, with his usual promptitude.—*Ex.*

VERY PLEASANT.

Huestis: "Although the car was crowded, I enjoyed the trip."

Eddy: "That seems impossible."

Huestis: "Not at all. I made the journey at about four laps to the mile."—*Cornell Widow.*

"There's one soldier less," I said to a friend,
As a funeral passed by the door.
"Not so," said this scholar,
"I'll bet you a dollar
That in fact it is one soldier *mort.*"

—*Yale Record.*

HAWICK TWEEDS

—IN—

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

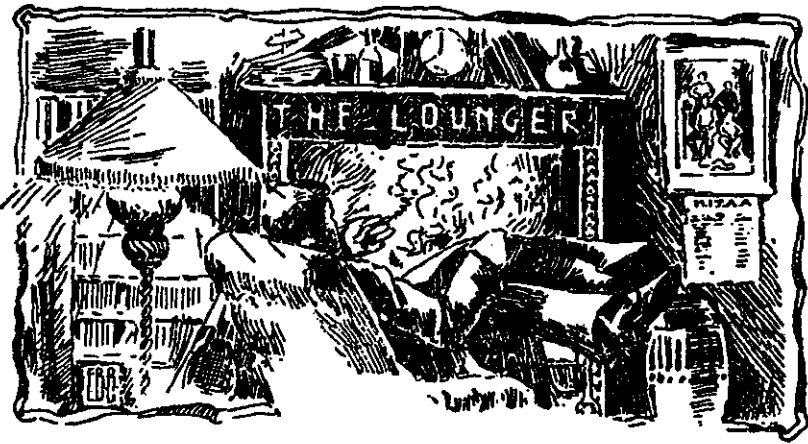
We have imported these textures in great variety from the Mills in Scotland, and have fashioned them into Young Men's Suits, that are the acme of the tailor's art; the material being both double and twisted, is exceedingly tenacious, practically untearable, finished both sides alike, and entirely unelastic.

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



It is the Lounger's amiable habit to retire daily to his sanctum after the midday meal and there recuperate from the morning's exertions by means of a short period of slumber. The custom of course prohibits attendance at two o'clock lectures, but its general effect upon the system is beneficial. Last Wednesday, while thus repairing his wasted faculties, the Lounger was conscious of a vague unrest prevailing the usually peaceful atmosphere of THE TECH office. Sounds of hurrying feet and suppressed whisperings mingled with his dreams of youthful innocence. Finally he could bear his curiosity no longer and he arose and hastened to the window. More portents met his astonished senses. Carriages were drawn up in numbers by the curbstone and numerous distinguished persons with fur coats and whiskers were ascending the steps. On every face was an air of excitement and constraint. Then the Lounger's friend the new Editor in Chief, note-book in hand, tore wildly up the street, followed closely by the Lounger's friend, the old Editor in Chief. Evidently somewhat of moment had transpired. Could the Institute Committee in a moment of inadvertence have done anything? Could the Bursar have cashed a cheque? Could the eleven have won another game? At this juncture the Editor in Chief and the ex-Editor in Chief rushed in with pallid faces and flashing eyes. "What, what has happened?" gasped the Lounger. "New President!" shouted the Editor in Chief. "A new President of the Co-operative Society?" "Of the Institute!" "Oh, is that all?" said the Lounger.

In the interests of justice and the freedom of the ballot, the Lounger wishes to unearth a gigantic fraud perpetrated upon the Sophomore class. At the election of its officers, held in Rogers corridor on Friday last, there was but one teller in charge of the

ballot box during the early afternoon hours. Shortly after three this guardian of the polls grew drowsy. Whether this was a purely normal cat-nap similar to the Lounger's own referred to above, or whether it was the result of a dose of some narcotic skillfully administered in the hash of the lunch room, may perhaps never be known. At any rate the teller slumbered serenely; and just as his jaw dropped and his snores began to be plainly audible a head appeared at the top of the spiral staircase. In a moment the eyes which were in the head took in the situation. In an instant more a prominent politician of Nineteen Hundred had reached the voting table with a stealthy step. He did not like to disturb the slumbers of his classmate, so he took some ballots very quietly. He marked some twenty or thirty of them, all in the same way, so that there might be no mistake. He slipped them into the box and stole away, to the accompaniment of soft and comfortable snores.

After this revelation the Lounger thinks the officers of the Sophomore class can scarcely do less than resign in a body and call for a new election.

At the Technology Club a few nights since the Lounger was asked to decide a bet between two prominent members of the instructing staff. The bet related to the inscription concerning a golf ball which accompanied the picture on the front page of last week's TECH. One professor held that from analogy the sentence in question must contain a joke; his friend argued that general considerations to the contrary, there was no joke to be discerned. The Lounger took pleasure in explaining that "Silver town" is the name of a brand of golf-balls, and that the comparison of this word with the words "silver town" applied to Mr. Bryan's residence, produced a pun; he discreetly left the question as to the presence of a joke undecided. But this case was only one instance of many which have come to the Lounger's notice of late, in which a long-suffering public has been grievously afflicted by the unholy jargon of this game of golf. One of two things must be done to cure this present condition. Either forcible restraint must be put upon our budding artists and *literati*; or we must all study the royal game. And then, when we are told that a stymy was holed out with an iron bunker into a fozzle, and that the niblick gracefully caddied a teed hazard out of a foursome right through the brassy bulger, we shall feel the proper emotions.

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.

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

TAYLOR, De MERITTE & HAGAR,
PRINCIPALS.

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.

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.

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,

33 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 November 1, 1897.

Boston Museum.—Charles Frohman's great success, "Never Again," will be in Boston for two weeks. It has drawn crowds to the Garrick in New York, and is sure to be a success here. E. M. Holland, Fritz Williams, and Grace Kimball are members of the company.

Castle Square Theatre.—This week the Castle Square Stock Company, who still continue

their success, will give an elaborate production of Bronson Howard's thrilling and famous war drama, "Shenandoah."

Tremont Theatre.—Mrs. Fiske will present her greatest success, "Tess of the D'Urbervilles." The company has been well chosen, and the scenery is most artistic and fitting for the different scenes.

Hollis Street Theatre.—For one week only, Andrew Mack, the favorite singing comedian, will present his new and successful play, "An Irish Gentleman." Mr. Mack has a fund of new and delightful Irish songs.

Boston Theatre.—Miss Davenport's play, "A Soldier of France," is at the Boston for a long run. It has proved a great success, and is full of beautiful pictures and thrilling scenes.

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

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

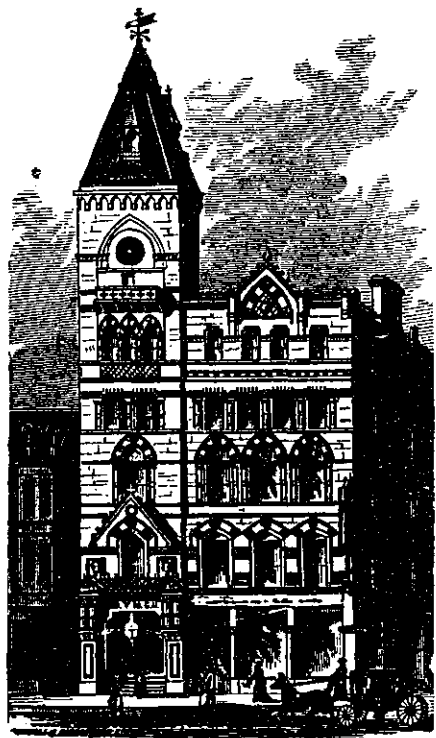
48 BOYLSTON ST. (near Tremont).

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.

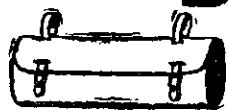
Cigarette Smokers who are willing to pay a little more than the price charged for the ordinary trade cigarettes, will find this brand superior to all others.

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.

"STUDENTS," ATTENTION!

Incorporated 1895.

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 L. FLETCHER CO.
COLLEGE-ETCHER CO.
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—