

THE TECH

VOL. XXXI. NO. 47

BOSTON, MASS., MONDAY, NOVEMBER 20, 1911

PRICE TWO CENTS

BOSTON TAKES FAST HOCKEY GAME EASILY

"Doc" Sloan Scores Goals For Tech—Leslie and Hornblower Show Speed.

By a score of 6-2 the Boston Athletic Association registered a clean victory over the Varsity Hockey Team at the Arena Saturday night in a game that was fast and full of sensational hockey for the first game of the season. Capt. Sloan's men played the game hard all of the time and well deserved the applause which they got from time to time from the large but widely scattered bunch of Tech men who went to the game.

Although outplayed by a heavier and more experienced team Tech put up a good game. The defence was the best part of the evening's work in spite of the fact that this division is made up almost wholly of new men who were playing their first game for the Institute.

The forwards showed lots of speed but were weak in their passes, and their few attempts at team work showed the lack of coaching. Sican, Storke and Hurlbutt were in the game and gave a good line on what the team will have when the fellows get to work. Stucklen spoiled most of the shots that came down to Tech's Cage. Lane, Whittlesy, and McLeod showed up well at point, and Ranney filed the Cage in first-class shape. He spoiled several sure goals and two or three others that were labelled "score."

The Boston team earned the victory through their faster skating, and the fact that their team work kept the puck most of the time on Tech ice. They played the game for all there was in it, and as a result the game was very rough from the start, the ex-Harvard men knocking the light Tech team all over the ice. In a mix-up early in the game Stucklen got a bad slam in the face with a stick and a little later McLeod suffered a heavy blow on the face.

Windsor and Doc Sloan faced off and the puck immediately jumped down into the vicinity of Tech goal.

(Continued to Page 3.)

M. E. SOCIETY TALK.

Views of Practical Man on Senior Work.

On Thursday, November 23, at 4.15 o'clock, in Room 11, Eng. B, Mr. I. E. Moulthrop will speak to the Mechanical Engineering Society on the subject of "Power Plant and Boiler House Design." Mr. Moulthrop will probably take into account the fact that the fourth year students are to work on a similar problem during the last term as Professor Miller, head of Course II, has told him of his plans for the fourth year work, and the Seniors will be able to get some pointers on their second term work.

Special attention will be paid to the layout of boiler houses, especially where the boilers are on the second and third floors. The question of handling ashes and fuel with regard to cleanliness and economy will be discussed in detail, as well as the advantages and disadvantages of mechanical stokers and hand firing.

A treasurer of the society will be elected at this meeting, members in good standing being eligible to vote. Any one who is interested in this subject is invited to talk.

CHINA NEVER TO BECOME REPUBLIC

Chinese Entertain Cosmopolitans at Union With Characteristic Celestial Stunts.

Last Saturday night, in the Union, the Cosmopolitan Club were the guests of their Chinese members, who entertained in a typical Oriental fashion. The program began with music by F. T. Yeh, which was appreciated by all.

president of the club, and who won the cration three successive years at Yale, held the closest attention of all present when he gave his talk on the Chinese Revolution. His talk in brief was as follows: The Revolution, which started October 11, 1911, came about as the result of the public execution of four rebel leaders, the increased anger of the public, the negotiation by the government of foreign loans, the inefficient and selfish government, the inspiration to nationalism given by the public schools, newspapers and magazine articles, and as a result of the flood, famine and plague which devastated the country at that time.

Thirteen states out of the eighteen are now in the hands of the rebels. The southern part of China is Republican, the central part moderate, and the northern part is loyal to the government. The important question which arises before the Chinese people is: "Shall China be a republic or a constitutional monarchy?" The latter is the more desirable, but the republic has the larger number of defenders.

After the Boxer uprising in China there was for a time a period of reform which resulted in the death of the Dowager. Selfish government and unjust taxes increased the morbid state of affairs. The rebel army made rapid progress and easily captured the cities, due to the fact that the public officers were partly in their favor and made no attempt at resistance.

There is at the present time a general desire for peace, and the Revolution will immediately become a thing of the past as soon as the leaders of the Revolution have had their demands granted by the imperial government. Mr. Tsao's talk was greatly appreciated by all, and it is hoped

(Continued to Page 2, Col. 2.)

ORCHESTRA TOMORROW.

Special Meeting Called to Take Place of Regular Rehearsal.

Every man in the Institute who takes any interest whatever in the Technology Orchestra is asked to come around tomorrow afternoon to the Union at 4.30 o'clock, to hear the new plans of the management. The regular rehearsal of Wednesday afternoon will be called off and the members are expected to report at this time instead.

In addition to the outline that will be presented by the management, there will be short talks by a number of prominent men, heads of the various activities. At the close of the few minutes that have been assigned for these men to say a few words on the future of the Orchestra, the constitution will be presented and the members will have a chance to hear it read.

NEW TYPE OF FREEZING MACHINE PERFECTED

Prof. Norton Finds Plants Now Installed at Institute Efficient.

During the summer there has been carried on in the Laboratory of Heat Measurements by Professor Norton, with the help of Mr. King and Mr. Wilkes, a series of investigations on a new type of freezing machine which is thought to be more compact, certain and easy of operation than any of the earlier machines. The refrigerant is sulfur dioxide, and is enclosed in a device which looks like a great dumb-bell. On turning the dumb-bell one end becomes cool and the other warm. (The pump and expanding chambers being contained in the bell itself.) The machine requires practically no attendance and its efficiency is high.

The inventor of the machine was the Abbé Audiffren, a teacher in the south of France, and the invention really did not come into use until the recent rearrangement of the instruction in the French school. The machines have been used abroad for several years, but have only been recently developed in this country, where they are to be put on the market.

There are now two machines in the laboratory, one of which makes 300 pounds of ice a day with an expenditure of about half a horse-power, while the other makes a ton of ice a day with an expenditure of about two horse-power. The machine seems to be very satisfactory for small isolated plants, such as the cooling of magazines on shipboard, or for household use, since it requires nothing except power and a little water.

ALL ARE INVITED.

Mining Society Gathering in Union Thursday Night.

Next Thursday evening, November 23, the Mining Society will hold a meeting in the Union. Professor Parley Stoughton of New York city will speak to the men. He graduated with the class of 1896 from the Mining Engineering Department, after obtaining a degree at Yale. He was a member of the Faculty of the Columbia School of Mines in the department of metallurgy. At that time Dr. Henry M. Howe, the noted specialist in iron and steel, was the head of the department.

Abandoning his teaching, Professor Stoughton devoted himself to his professional work entirely. In 1908 he published a text-book called "The Metallurgy of Iron and Steel," which has found a wide circulation. To illustrate his subject, Professor Stoughton will bring a large number of lantern slides, dealing with iron and steel, and will also give a number of his personal experiences.

Everyone is cordially invited to come and hear this interesting talk, and it may be added that rough-neck miners' refreshments, namely beer pretzels, are to be in evidence. These inducements should call out a large gathering.

In preparation for their six big meets this winter there are more than forty candidates for the Princeton swimming team.

"BIG GREEN" TEAM LOSES TO CRIMSON

Water-Soaked Field and Slippery Ball Prove Big Factors in Dartmouth's Defeat.

Before forty thousand ardent spectators in the Stadium Saturday afternoon, Bud Smith blocked a punt of Dartmouth's which was then recovered behind the goal line by Huntington, Harvard's eleventh hour center, for what proved to be the only touch-down and the victory. After this first score the water-soaked teams fought on with only one lone chance for another Harvard score, and this was spoiled and smothered because of a bad pass on what was to have been a drop-kick by Frothingham. Dartmouth, playing always on the offensive, tried and tried again to score both over the line and from the field, but was proven too weak for the task after Hogsett had kicked a most beautiful goal from the field on the forty-yard line.

Dartmouth's best, the "Big Green" team, had lost the game. It was a game that was full of honor for both winner and loser, and the men of Hanover had the satisfaction of knowing that they had fought a worthy foe under the worst conditions, and lost one of the closest of games.

Harvard's work was again an almost incomprehensible improvement over that shown a week before. There were few penalties, and comparatively few infractions of the rules. The team played together throughout the game. The linemen charged together, and charged hard; they played low and fast and had the best of what should have been Dartmouth's strongest element. The plays were run off faster and with better judgment. And from a Harvard point of view the best feature of the whole game is the fact that the new plays, those gotten up for the particular purpose of winning these big games were never used. Everyone of them was saved intact for the benefit of the Blue next Saturday.

While Harvard, after the touch-down in the first quarter, was never within striking distance of the goal line, it was quite evident to all that she was not showing her full power; that she preferred to play a waiting game and fight for time. Her defence was almost perfect, however, during this time, and it was only by flashes that the Dartmouth backs could make any great gains. The ball was in Harvard's territory for a large part of the time, but the men were never at loss, and never seemed to have any doubt as to the final outcome.

(Continued to Page 2, Col. 2.)

CALENDAR.

Monday, November 20, 1911.

4.00—Crew Candidates—Union.
4.15—Glee Club Rehearsal—Union.
4.15—Gym Team—Gym.
5.00—Basketball—Gym.

Tuesday, November 21, 1911.

4.30—Orchestra—Union.
5.00—1914 Basketball—Gym.
7.30—Chemical Society—22 Walker.
4.30—Orchestra—Union. Important.

Wednesday, November 22, 1911.

4.15—Gym Team—Gym.
4.00—English High School Club—Union.
5.00—Basketball—Gym.
7.30—Mining Society—Union.

THE TECH

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Managing Board.

H. W. Hall, 1912.....General Manager
 E. W. Tarr, 1912.....Editor-in-Chief
 E. W. Chandler, 1912.....Managing Editor
 C. A. Cary, 1912.....Assignment Editor
 A. H. Walitt, 1914.....Chief News Editor
 A. T. Gibson, 1913.....Business Manager
 L. H. Lehmaier, 1913.....Adv. Manager
 P. G. Whitman, 1913.....Circulation Mgr.

News Board.

A. J. Pastene, 1913.....Institute

News Staff.

In charge of departments:
 E. W. Mann, 1914.....Athletics
 F. S. Somerby, 1914.....Societies
 Members:
 B. Steere, 1914.....M. A. Oettinger, 1914
 R. F. Barratt, 1914.....S. Zaunetti, 1914

Business Board.

D. Van Volkenburgh, 1914..Asst. Adv. Mgr.

Office, 42 Trinity Place.
 Phone—Back Bay 5527 or 2180.
 Night Phone—Back Bay 5527.

All communications should be addressed to the proper departments.

Subscriptions, \$2.00 per year, in advance. Single copies, 2 cents.
 Subscriptions within the Boston Post-District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

Printed by Rutter, 147 Columbus Ave.

MONDAY, NOV. 20, 1911

IN CHARGE OF TUESDAY ISSUE.

EDITOR—Pastene, A. J., 1913.
 Associates—Adams, B. E., 1913; Eisenberg, S., 1913; Smith, C. L., 1914.

Not one cheer reverberated through the Arena last Saturday evening to help the members of the Hockey team in their first game of the season and show them that their classmates were backing them and took an interest in the team. There were about twenty-five or thirty loyal Tech men scattered about, but the official cheer leader was not there, and for that reason the few that were there could do nothing more than watch the game.

We are represented by a good Hockey team this year, and under the coaching of H. C. Clifford, formerly of the Harvard team, they should develop their team play so that they will have one of the best teams in the intercollegiate world. But isn't it discouraging to a struggling team to have not one word of encouragement for their hard labors? We hope that when the next game comes off that there will be 500 Tech rosters in a special section and that the Official Cheer Leader will be on the job. With the encouragement of their classmates a great improvement will be found in the work of the men.

NEW HOCKEY COACH.

Clifford, a Former Arlington Star, Gets Position.

Manager Ranney of the Varsity Hockey team announced today that he had secured the fast Arlington player, R. C. Clifford, for coach for the squad for the remainder of the season.

The Arlington team was a fast, clever team, and one that could be depended upon to put up a fast game. Clifford is a man who knows the game and who is able to give his knowledge out to the men on the squad. With the work and training which he will be able to give, the team should come up fast and be in much better shape so far as team work goes when the next game comes off in about a week.

We are glad to see some men come out for the gym team at last.

CHINESE ENTERTAIN.

(Continued from Page 1.)

he will be on hand to take part in the next Chinese entertainment, which will probably come off next February.

T. P. Hsi also won a great deal of applause by stories of his first experiences in this country. When Mr. Hsi first came to this country it was in summer time, and he was wearing high shoes. Desiring a pair of low ones, he and his friend went to a shoe store in New York city. Mr. Hsi could not find a pair to fit him, and the salesman, taking advantage of his ignorance of American fashions, sold him a pair of women's shoes with high heels. His appearance on Broadway resulted in a great deal of amusement to passers-by, and it was not until several days later that Mr. Hsi found the cause of their amusement. Mr. Hsi told a number of other amusing incidents, including some of the sensations which Americans experience when traveling through China. He spoke of some of his first experiences at a military preparatory school in this country, his experiences in hotels and cafes and various other interesting and amusing episodes.

Slides of Chinese scenery and maps explaining the situation in China were next shown, including pictures of the temples, bridges and the interior and exterior of the imperial palace.

Chinese songs were sung by Mr. Z. Y. Chow, and Mr. F. T. Teh held the close attention of the audience with Chinese music, which was sung and played before the modern music was introduced into China.

The magic stunts and card tricks of Mr. S. C. Li, and the peculiar Chinese shuttle-cock game was also very interesting.

Chinese refreshments were served after the entertainment, and the crowd broke up at a late hour. The entertainment was thoroughly enjoyed by all present, and everyone was of the opinion that it was the finest entertainment ever given in the Institute. In fact, it was so highly successful that the Chinese night in February is anxiously awaited by all.

HARVARD BEATS GREEN.

(Continued from Page 1.)

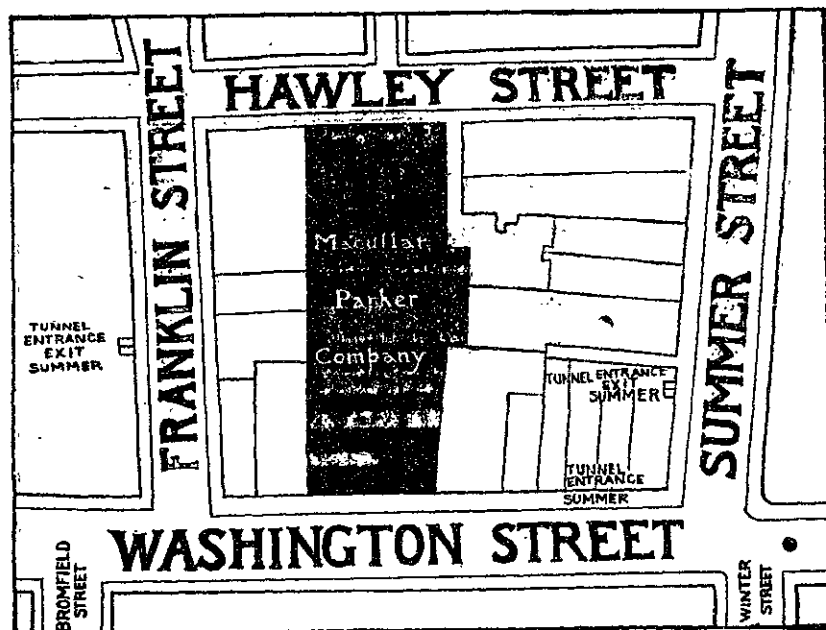
Dartmouth threw her utmost strength on the Harvard line and it never wavered; she used everything possible in the line of plays in the last few minutes of play without avail, and yet it seemed often that a turn of the luck toward her team would give them the game and a well-deserved victory. She gave poorer protection to her kickers but was down the field very much faster under the ball. Her ends, Captain Daley and Dana, gave a fine exhibition of what to do and how to do it. She showed a greater ability, if it were possible, to follow the ball, and lost the game only because of the fact that in the defence, which is so absolutely necessary under the present rules, Harvard had a shade the better and also what proved to be very important also, Harvard showed more adaptability, more readiness to take advantage of the opportunities that were presented.

ENGLISH HIGH SCHOOL.

All Institute men who are old English High men are asked to be present at a meeting of the E. H. S. Club in the Union Wednesday afternoon this week. The meeting will be held at 4 o'clock sharp, and should take but a few minutes if the men are on time.

There is some very important business to come up, and the fellows should make it a particular point to be present.

Location of Our Store



And Comparative Area in the Block

Macullar Parker Company

CORRECT CLOTHES FOR STUDENTS made in

our workshops on the premises and ready

for immediate use. SUITS from \$25.

FINE FURNISHING GOODS

400 WASHINGTON STREET

Special Announcement.

Due to the removal of my Boston store to 336 Washington Street, I am offering a discount of 20 per cent. on all orders received from now on until the middle of December—a great opportunity for any one who appreciates good clothes. All my woolens are of foreign texture.

Style and workmanship guaranteed of the best.

L. PINKOS, College Tailor

9 State Street
 BOSTON

Harvard Square
 CAMBRIDGE

STONE & WEBSTER

CHARLES A. STONE, '88
 RUSSELL ROBB, '88

EDWIN S. WEBSTER, '88
 HENRY G. BRADLEE, '91

ELIOT WADSWORTH, '91

Securities of Public Service Corporations

Under the Management of Our Organization

STONE & WEBSTER
 Management Association

STONE & WEBSTER
 Engineering Corporation
 CONSTRUCTING ENGINEERS

GENERAL MANAGERS OF PUBLIC SERVICE CORPORATIONS

A. G. MORSE, Tailor

Owing to an open fall I will make all my \$40.00 and \$45.00 suits at \$38.00 for thirty days.

13 BOYLSTON STREET, BOSTON, MASS.

Rooms 14 and 15

Telephone, Oxford 109

HOTEL BRUNSWICK

BOSTON

EUROPEAN AND AMERICAN PLANS

HERBERT H. BARNES, Proprietor.

BOSTON OPERA HOUSE

HENRY RUSSELL, Managing Director

Monday, November 27, at 8 p. m.

SAMSON ET DALILA
In French. By Saint-Saens

Wednesday, November 29, at 8 p. m.

TOSCA
In Italian. By Puccini

Friday, December 1, at 8 p. m.

AIDA
In Italian. By Verdi

Saturday, December 2, at 2 p. m.

CAARMEN
In French. By Bizet

GRAND OPERATIC CONCERT

At Popular Prices

SUNDAY, DECEMBER 3, AT 8 P. M.

A homelike, first-class hotel, proud of New England traditions, dating from Gen. Warren, yet newly furnished with every comfort & convenience

THE AMERICAN HOUSE
BOSTON

Long distance phone and hot and cold water in every room. Kept constantly clean by our vacuum plant. Rooms \$1.00 a day and up.

VISIT THE RATESELLER

Barakian's Ideal Cafe

189 MASSACHUSETTS AVENUE

EUROPEAN PLAN

Combination Breakfasts and Table d'hote Dinners

HOME COOKING QUICK SERVICE

Special Discount to Tech Students

\$2.25 for \$2.00 \$3.50 for \$3.00

OPEN 10 A. M. TO 8.30 P. M.

Lunch at ...

CANN'S Sea Food

Broiled Live Lobsters a Specialty

228 Massachusetts Avenue

OPEN FROM 6 A. M. TO 12 P. M.

DANCING

Miss ALICE B. DIAZ

24 Newbury Street, Boston

Telephone, Back Bay 3713M

SOCIAL and AESTHETIC DANCING

Class and Private Lessons

teaching a Specialty

PRESTON'S Coffee House

OPEN ALL NIGHT

1036 BOYLSTON ST.
BOSTON

Telephone, 21717, B. B.

RAPID PROGRESS ON BIG KEOKUK DAM

New Features in Mounting the Wheels and Methods of Handling Water.

The developments of the enormous water power system on the Mississippi River, known as the Keokuk Dam, have been very rapid in the last few weeks, and the dam is rapidly beginning to show some of the features which will mark it for all time as the foremost work of a new era of concrete construction. This is the development which was very slightly touched upon by Desmond Fitzgerald in his talk before the Civil Engineering Society a short time ago (vide THE TECH, No. 17, Vol. XXXI).

Many of the arches in the spillway section have been completed, and the rock foundation for the big powerhouse has been brought to the point where the concrete tubes for the water control can be put in place, a few at a time. These division tubes are arranged to supply water at all points of periphery of the wheels so the pressure and the resulting wear may be equalized in so far as possible. The water is to be admitted through four main entrance gates and then carried to the wheels through the new tubes.

The wheels themselves are to be vertical, fifteen and a half feet in diameter, and will be equipped with two sets of bearings, which will be interchangeable. One set will be of the standard roller type and the other will consist of discs running in, and separated by compressed oil. The wheels will weigh about 500,000 pounds when they are completed, of which one-third will be taken for the runners.

The velocity of the water has been set at seven feet per second at entrance, leaving the wheel with a nineteen foot velocity, and being slowed down to about four feet per second when it finally leaves the house through the draft tubes.

The draft tubes, some of which are already being put in position, are cast in forty-eight-foot sections, and separated by tar-concrete expansion joints. The larger ribs of these tubes alone weigh more than 7000 pounds and are set on a heavy concrete foundation.

TECH LOSES AT HOCKEY

(Continued from Page 1.)

Ranney was kept busy for a few minutes by the almost constant bombardment of shots, but he proved equal to the job and turned them off like a veteran. Then Storke and Sloan ran away with it down toward the B. A. A. goal, but it was only for a minute, and then Hornblower was back again and scored a clean shot into our cage. He repeated within a few seconds and before the half was over Leslie had counted again for the B. A. A.

The second half was much faster and rougher than the first, and the puck was kept closer to the centre of the ice, showing that the teams were more nearly on a par. Hicks scored at the three-minute mark and Sloan followed for Tech in fifty-five seconds with the first score.

Still growing faster as time neared the end of the half, two shots for Boston made their total six, and in the last few seconds Sloan came around with another tally for Tech, making the final score six to two.

The lineup:

Tech. Boston.
Storke, l. w. l. w. R. C. Leslie
Sloan (Capt.) l. c.,

l. c., Hicks, E. Davenport
Yearance, Rogers, Kaufman, r. w.,

r. w., J. Foster
Hurlbutt, r. c. r. c. Hornblower
K. Stucklen, Eichorn, c. p.

c. p. A. Winsor (Capt.)
Lane, Whittlesy, McLeod, p.

p. W. P. Foster
Ranney, g. g. W. Canterbury

Score: Tech, 2; Boston, 6. Officials, Referee, J. Norfolk; umpire, H. Stucklen; goal umpires, Williamson and Smart; timer, Dutton.

Apollo

THE CHOCOLATES
THAT ARE DIFFERENT

FOR SALE AT THE UNION

"THE LITTLE PLACE
'ROUND THE CORNER'"

Copley Lunch

QUICK SERVICE

Lombardy Inn Italian Restaurant...

Table d'Hote Dinner 5 to 8.30

A la Carte

STRICTLY ITALIAN CUISINE
ITALIAN WINES

BOYLSTON PLACE
Near Colonial Theatre
BOSTON, MASS.

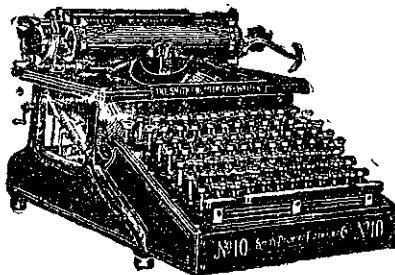
Telephone Oxford 2948



Are worth an acquaintance. They possess all the good points.

Hygienic methods, skilled workmen, and the choicest material—briefly tell the story of their manufacture. Give them a trial and you will surely make a friend.

Samoset Chocolates Co., Boston



New Visible Model No. 10

THE SMITH PREMIER
TYPEWRITER CO., Inc.

15 Milk Street, Boston, Mass.

Snyder's

DELICIOUS
CHOCOLATES
AND
BON-BONS

414 Boylston Street
(NEAR TECH)

HOTEL CUMBERLAND NEW YORK

Southwest cor. Broadway and Fifty fourth St.



HEADQUARTERS FOR COLLEGE MEN
HEADQUARTERS FOR TECH MEN

KEPT BY A COLLEGE MAN
SPECIAL RATES FOR COLLEGE TEAMS

Ideal Location, near depots, shops and Central Park

New, Modern and Absolutely Fireproof
Most Attractive Hotel in New York. Transient Rates, \$2.50 with Bath and up. Ten minutes' walk to Twenty Theatres. Send for Booklet.

HARRY P. STIMSON
Formerly with Hotel Imperial.

Tech Barber Shop

CLEAN, HANDY
EXCELLENT WORKMEN

Ask the fellows
who have been there

585 BOYLSTON STREET

FOUNDED IN 1837

THEODORE METCALF CO.

Apothecaries

535 Boylston Street
CORNER CLARENDON STREET

Wholesale & Laboratory

141 FRANKLIN COR. FEDERAL ST.

All Goods Required by
Students at

Maclachlan's

502 BOYLSTON STREET

Drawing Instruments and Materials,

Fountain Pens Text-Books

BBB Pipes

Schryver's

Wholesale and Retail Dealer in

IMPORTED AND DOMESTIC CIGARS

and SMOKERS' ARTICLES

New Process Intaving Guaranteed not to Loosen

44 School St., Boston, Mass.

PLYMOUTH THEATRE
Tel. Ox. 2075
ELIOT ST., NEAR TREMONT

Pomander Walk

SHUBERT THEATRE
Evenings at 8
Wed. and Sat. Matinees at 2

Mueterlueck's Exquisite Fantasy

THE BLUE BIRD
NEW THEATRE PRODUCTION

MAJESTIC THEATRE
Tonight at 8.15
Matinees Wed. & Sat. at 2.15

HENRY W. SAVAGE
offers the Inspiring Dramatic Spectacle
A MODERN MORALITY PLAY
BY WALTER BROWN

EVERY-WOMAN

Her Pilgrimage in quest of Love
N. Y. Production and Cast
Ensemble of 200 people

Castle Sq. Daily 2 and 8
Tel. Tremont 5

Mr. John Craig Announces

"The End of the Bridge"

Prices! 15c, 25c, 50c, 75c, \$1.
Down Town Ticket Office—15 Winter Street

Old Established Dining Room
Mrs. H.O. Hanson, Prop.
33 SAINT BOTOLPH STREET

21 Meal Ticket \$4.50 14 Meal Ticket \$3.50
7 Dinners . . . 2.50 7 Lunches . . . 1.50
Breakfasts 30c. Luncheon 25c. Dinner 40c.

WE CATER ESPECIALLY TO STUDENTS

HAIR CUTTING
UNDER
COPLEY SQUARE HOTEL
4 BARBERS MANICURE
H. J. LANDRY, - - Proprietor

It won't leak

You should own a **MOORE'S**
BECAUSE

It can be carried anywhere, in pocket or bag, it can't leak.
It writes without shaking. When the cap is on, the pen resting in the ink, remains moist.
It writes continuously with an even flow of ink.
It will carry any kind of ink, even Higgins' India Drawing Ink, the heaviest ink made.
It is the simplest fountain pen to fill. No joints to unscrew, just take off the cap and it is ready to fill.
It is made in the simplest manner of the fewest parts, nothing to get out of order.
It is giving satisfaction to thousands of users all over the world.
It is the best Fountain Pen made.

MOORE'S
NON-LEAKABLE
FOUNTAIN PEN

COLLINS & FAIRBANKS CO.

YOUNG MEN'S HATS

RAIN COATS **AUTO COATS**

383 Washington Street, Boston

CATALOG 45 MAILED UPON REQUEST

Classified Advertisements and Notices

HERRICK, COPLEY SQUARE
Choice Seats for all Theatres
Phone B. B. 2328
Key Number Connecting Five Phones (J-17)

GENTLEMEN—I call to your attention that I will pay more for cast-off clothing than any one in my line of business. A trial will convince you. Send postal to Max Keezer, 3 Bow street, or telephone Cambridge, Mass., 302. (21-26t)


1243 COMMONWEALTH, Allston, Bri. 686-3. Sunny room, \$2.00.

LOST—A self-filling fountain pen has been left on the table of the Union reading room. The finder is kindly requested to leave the pen for the owner at the Cage.

Established 1847

THOS. F. GALVIN, Inc.
Flowers
24 Tremont St., Boylston cor. Fairfield Jj
BOSTON

Underwood



The Machine You Will Eventually Buy

Underwood Typewriter Co.
214-216 DEVONSHIRE ST., BOSTON

Our Special Offer
FULL DRESS SUIT
Silk lined throughout . . . at \$45.00

C. A. Patten & Co., Merchant Tailors
43 Tremont St., Carney Bldg., Boston

TECH STUDENTS! You will find it to your advantage to call and see US when you want a new suit or overcoat. Our prices are reasonable.

Repairing and Cleaning
L. GREENHILL & CO.
FURRIERS AND TAILORS
230 MASSACHUSETTS AVENUE, BOSTON
8 minutes walk from "Tech."

Don't!!! Forget the address. . .
We make a special effort to win the esteem of Tech men.

Copley Square Pharmacy
E. G. BOSSOM, PROP.
51 Huntington Avenue, Boston

INTERNAL COMBUSTION ENGINES

A course of lectures on gas and oil engines will be given by Professor Riley in Room 6 Lowell, on Tuesdays and Fridays, at 4.10 P. M., beginning November 21.

No registration is required for this course. It is open to all fourth year students and to special students who have completed their courses in Heat Engineering.

WALTER HUMPHREYS, Registrar.

The proof of the list of students for the Catalogue will remain posted until Tuesday night. Corrections should be left in writing at the Registrar's office not later than Tuesday, November 21st.

WALTER HUMPHREYS, Registrar.

SUITABLE REWARD for return of pair of gloves lost in Rogers, Thursday P. M., to H. S. James, 30 Newbury street. (46-1t)

Have you picked the winner in the big cross-country race on the 25th, or in the "big game" the same day?

VISIT THE NEW STORE
BUILT ESPECIALLY FOR YOU.

DRAFTING INSTRUMENTS, PAPERS, TRACING CLOTH, TRIANGLES, T SQUARES, SLIDE RULES, PENCILS, ETC. PAINTS, VARNISHES AND HARDWARE.

At Lowest Price
210 CLARENDON ST.
ALSO
82 and 84 WASHINGTON ST.
Catalogues Free

Wadsworth, Howland & Co.
Incorporated

J. C. LITTLEFIELD
HIGH CLASS Tailor

Smart and effective fabrics; the latest textures and the most fashionable shades; prices that are right. Come and be "suited."

DRESS CLOTHES A SPECIALTY
12 Beacon St., Boston

"All Work and No Play Makes Jack a Dull Boy"

The Trinity Court Bowling Alleys
Offers Tech men an admirable and convenient source of recreation. Directly opposite the Tech Union on Stuart St.

Pronounced
"The Parlor Alleys of the City"

Telephone, B. B. 4030 E. B. THRASHER, Prop. and Mgr.

Oak Grove Creamery Company
431-437 Boylston Street

Visit our New Lunch Room. Finest Food. Quickest Service
Open from 11.30 a. m. to 3 p. m.
Up One Flight Elevator Service

Combination Breakfasts Special Lunches, a la Carte and Table d'hote Dinners

Street Floor OPEN FROM 6 A. M. TO 8 P. M.

COES & STODDER
Desirable Shoes for Students
10 TO 14 SCHOOL ST.