

College Clothes

Many new and exclusive styles for young men, hand tailored by the best craftsmen.

A. SHUMAN & CO.
BOSTON

The Copley Florist

N. Fishelson

14 and 18 Huntington Avenue, Boston

Pierce Building

Floral Designs for all Occasions

Tel. 21671 Back Bay

DISCOUNT TO TECH MEN

Tech Drug Store

Chemicals, Reagents and Acids
AT SPECIAL PRICES

Sachets, Perfumes, Toilet Articles

New Tech Seal Cigarettes

All Popular Brands of Cigars

T. METCALF CO.

COPLEY SQUARE
39 TREMONT STREET

Stowell Co.
24 Winter St.
Jewellers and Importers of Novelties



GENTLEMEN
WHO DRESS FOR STYLE
NEATNESS, AND COMFORT
WEAR THE IMPROVED

BOSTON GARTER

THE RECOGNIZED STANDARD
The Name is stamped on every loop—

The *Velvet Grip*
CUSHION BUTTON CLASP

LIES FLAT TO THE LEG—NEVER SLIPS, TEARS NOR UNFASTENS

Sample pair, Silk 50c., Cotton 25c. Mailed on receipt of price.

GEO. FROST CO., Makers
Boston, Mass., U.S.A.

ALWAYS EASY

ATHLETIC ASSOCIATION

Awards Insignia to Hockey Team and Discuss Athletic Season Tickets

H. W. Pain 1909, A. A. Gould 1910, R. H. Gould 1911, D. Bakewell 1911, P. W. Taylor 1910, and V. G. Sloan 1912, were awarded the H.T.T. insignia at the meeting of the Athletic Association yesterday afternoon. The hockey team has won four games, lost three, and played one to a tie this season.

A plan is being investigated by the association whereby the various athletic activities of the Institute may be more closely bound together and put on a sound financial basis.

The object is to incorporate the different sports, fencing, hockey, basket-ball, tennis, track and cross-country under one head and to issue a season ticket, which will admit the holder to all games and meets. It will be good for admittance to all basket ball games, all fencing meets, and in the case of meets at the field while it will admit to the field, it will not include the grand stand.

Intercollegiate meets will not be included in the ticket privilege. From a mere pecuniary standpoint this will be of advantage to all students. The price of the ticket will be \$3.00, while if single tickets were bought to each of the events which the season ticket covers, the cost would be about \$5.50. The money obtained from the sale of these tickets will be apportioned to the various activities according to their financial requirements and to their industrial importance. To make ends meet it will be necessary to sell between 350 and 450 tickets, and while in all probability a great many more would be sold, the number is put low in order to obtain a conservative estimate.

IMPROVEMENTS IN LAB.

Apparatus for Testing of Cement And Other Materials

The Mechanical Engineering Department is at present investigating the breaking strength and method of failure of reinforced concrete beams of rather unusual proportions. The form or beam which has been most frequently tested and for which most information has been obtained is what may be called the typical floor beam used in concrete buildings, having a span of 16 feet or more, and a depth usually not greater than 18 or 20 inches. In certain parts of engineering structures the loads are so great that it becomes necessary to use beams and girders of less than half the above length and more than double the depth. With such proportions very little is known about the nature of the stresses, and engineers are in doubt whether the beam deflects under its load, like a longer beam, or whether it supports its load somewhat like an arch.

The Ambusen Hydraulic Construction Company has supplied the Institute with 12 concrete beams varying in length from 6 to 12 feet and having a uniform depth of 30 inches, and 12 others, made in exact duplicate of the first lot, but with just half the linear dimensions. These are now being tested by students under the direction of the instructing staff. It is expected that, among other things, the results will show whether the smaller specimens fail in the same manner as the larger, or whether the larger, more expensive ones are really necessary for obtaining reliable data.

The Institute laboratories are well equipped for testing concrete. They contain a machine capable of braking columns up to 12 inches square, and two beam-testing machines, the larger of which can measure loads up to 100,000 lbs. Another machine, originally built for testing arches has recently been adopted for breaking beams; its capacity is 400,000 lbs. During the past seven years there has been scarcely a term when these machines have not been used for concrete tests of one sort or another. The work has included tests of columns, floor slabs, arches and beams as well as special tests of bonding and water-proofing.

Some of the tests of columns were made to determine the loss of strength due to subjecting the column to a prolonged and intense heat followed by application of a stream of water from a hose.

STONE & WEBSTER ENGINEERING CORPORATION

CONSTRUCTING ENGINEERS

DWIGHT P. ROBINSON.....President and General Manager
HOWARD L. ROGERS.....Vice-President and Treasurer
GEORGE O. MUHLFELD.....Construction Manager
WILLIAM N. PATTEN.....Engineering Manager
THORNDIKE N. ENDICOTT.....Purchasing Agent

147 MILK STREET

BOSTON, MASSACHUSETTS

OTIS ELEVATOR COMPANY

53 State Street, BOSTON

Electric and Hydraulic Elevators
ESCALATORS (Moving Stairways)

MAKER TO WEARER
THE SPHINX
\$2.00 HAT
412 WASHINGTON ST. BOSTON
SPRING STYLES

T. J. SOUTHWELL
Stationer and Newsdealer
Circulating Library Laundry Agency
Ladies' and Gentlemen's Furnishings
66 HUNTINGTON AVENUE, BOSTON
Near cor. of Irvington Street

M. J. HANNIGAN
formerly of Hotel Lenox has leased
The Tech Barber Shop, Hotel
Westminster. Special attention
paid to students. All Haircuts 25c.

"THE LITTLE PLACE
'ROUND THE CORNER"
COPLEY LUNCH
QUICK SERVICE

THE STUDENT'S DRUG STORE
UNDER COPLEY SQUARE HOTEL
We make a special effort to merit
the patronage of our student
friends
Don't forget the address, under Copley Sq. Hotel


HERRICK TICKETS
ALL THEATRES
COPLEY SQUARE
Telephones 2329, 2330 and 2331 Back Bay

McMORROW

College Shoes for College Men

238 Washington Street, Boston, Mass.
OPPOSITE YOUNG'S HOTEL

"THE GIRLS ARE FOND OF THESE"



Tech Emblems
Greatest Variety
Lowest Prices

BENT & BUSH
15 SCHOOL ST. BOSTON, MASS.

GEO. H. ELLIS CO
Printers
No. 272 CONGRESS STREET
BOSTON, MASS
Phone, 1549

MORSE & HENDERSON
Tailors
18 BOYLSTON STREET
Rooms 14-15
Telephone Oxford 99 BOSTON
SPECIAL DISCOUNT TO TECH MEN

HIGGINS'



Drawing-Inks
External Writing-Ink
Engrossing-Ink
Taurine Mucilage
Photo-Mounter
Drawing-Board Paste
Liquid Paste
Office Paste
Vegetable Glue, Etc.

Are the Finest and Best Inks and Adhesives. Emancipate yourself from the use of corrosive and ill-smelling inks and adhesives and adopt the Higgins Inks and Adhesives. They will bear revelation to you, they are so sweet, clean, and well put up.

At Dealers Generally.
CHAS. M. HIGGINS & CO., Mfrs.
Branches: Chicago, London
271 Ninth Street, Brooklyn, N.Y.

ARTISTS PROOFS



PHOTOGRAPHER
Marceau's
160 TREMONT ST.
BOSTON
NEAR KEITH'S

VELLUM PHOTOGRAPHS

TECHNOLOGY PHOTOGRAPHERS FOR 1909