

# THE TECH

1914

## FIELD DAY EXTRA

1915

VOL. XXXI. NO. 33

BOSTON, MASS., FRIDAY, NOVEMBER 3, 1911

PRICE FIVE CENTS

### BOTH RELAY TEAMS IN FINE CONDITION

Sophomores Conceded Advantage  
—Older Class Usually  
Victorious.

1914.	1915.
V. W. Bowler.....	T. J. Barry
S. A. Smith.....	D. B. Baker
A. T. Wyman.....	B. V. Enebuske
M. A. Oettinger.....	N. L. Medhurst
D. L. Sutherland.....	B. Lapp
A. C. Dorrance.....	E. T. McBride
A. Crankshaw.....	H. B. Smith
A. R. Stubbs.....	W. B. Spencer
J. W. Bolton.....	E. P. Place
H. S. Wilkins.....	L. W. Prescott
T. H. Guething.....	A. B. Curtis
L. A. Wilson (Capt.)	F. Hann (Capt.)

Substitutes.

T. H. Huff..... F. F. Fulton  
F. Hurlbutt..... E. J. Kingsbury

#### 1914 Relay.

The Sophomore relay team is confidently awaiting the race this afternoon, expecting not only to beat the Freshmen, but to set a new record as well. They have practised hard and conscientiously, both at the running and at passing the flag, and are now in the pink of condition.

With nearly all of last year's men out, practise in earnest was started early. The squad was small at first, but gradually grew, many good new men coming out. The old men were able to help the new ones to such an extent that the preliminary work was gone through with in very short time.

The team was unfortunate this year in having no practice races. Manager White had arranged a race with English High School, but it had to be called off on account of rainy weather. This deficiency has been partly made up by frequent races between the two halves of the team.

The times in the final trials were not as good as was expected, but this was partly due to the damp weather and the heavy condition of the track. The showing in the fall meet was very encouraging, especially that of Capt. L. A. Wilson.


Captain Wilson is, without a doubt, the best man on the team. He did his first running as a member of the Freshman track team last winter. He went out for the Varsity track team in the spring and soon became the best 100-yard man on the team, winning his "T" in the meet with Brown.

T. H. Guething is also a "T" man and the best quarter-miler in the Institute. He was a member of last year's champion relay team and has won places in the spring meets. M.

Continued on page 5, column 2

### UNDERCLASS SUPREMACY DECIDED TODAY TECH-HARVARD CROSS COUNTRY RACE

Sophomores To Take Relay--Freshmen Conceded  
Tug of War--Victory Found on Gridiron--  
Technology to Beat Harvard

	Hadley (Capt.) ⊕ R-13		O'Brien ⊕ L-13	
		Hawgood ⊕		
Wardwell ⊕	<b>19</b>		<b>15</b>	Howlett ⊕ L-15
		Scully ⊕ Q		
Lee ⊕	Crowell ⊕	Boynton ⊕ C	Moore ⊕ R-C	Proctor ⊕ L-T
				
		Morgan ⊕	Thompson ⊕	Burnham ⊕
		Mitchell ⊕		
Storke ⊕	<b>19</b>		<b>14</b>	Hines ⊕
		Van Etten ⊕		
		Bryant (Capt.) ⊕	Fox ⊕	

On the morning of Field Day great interest centers on the outcome of the clash on the gridiron. Victory has gone to first one and then the other of the two classes. Wagers with odds for the Sophs are quite common. On the whole, the teams are fairly well matched. Each squad has its individual stars, and in this respect the Freshmen are ahead of their opponents. For the past six weeks both teams have undergone a process of elimination, and now two good elevens have come out on top.

The Freshmen take great pride in their famed and experienced backfield, Captain Hadley, O'Brien, and the speedy interscholastic quarterback, Scully. Opposed to this aggressive combination is the well-balanced defen-

Continued on page 3, column 2

### TECH VS HARVARD CROSS-COUNTRY RACE

Teams To Come Over Tech  
Course From Highland Station  
Finish at 3.30.

TECH	HARVARD
P. R. Withington (Capt.)	1
H. S. Benson (Capt.)	2
	H. P. Lawless..... 3
R. D. Bonney..... 4	
	F. W. Copeland.... 5
C. A. Cary..... 6	
	R. S. Boyd..... 7
E. E. Ferry..... 8	
	C. W. Burrage..... 3
C. S. Lee..... 10	
	H. M. Warren.... 11
E. T. Marceau..... 12	
	W. H. Lucey..... 13
A. F. Nye..... 14	
	W. W. Tugman.... 15
E. W. Newlin..... 16	
	F. H. Blackman... 17
G. C. Shedd..... 18	
	K. Roosevelt..... 19
R. T. Palmer..... 20	
	S. Nichols..... 21
E. Magee..... 22	
	A. R. Boynton.... 23
C. H. Wilkins..... 24	
	A. J. de Gonzaldi.. 25
W. Wall..... 26	
	H. L. Graves..... 27
K. Cartwright..... 28	
	B. A. Edwards.... 29
	S. S. Hanks..... 31
	R. H. Burrage.... 33

This afternoon Technology will meet Harvard in the eighth annual cross-country race held between these two colleges. Of the seven previous races Tech has won four and Harvard three. This year Tech has a well-balanced team which has a good chance to win. It has few individual stars, but is strong as a team.

The first meet was held in 1904, when Tech won by the score of 38 to 40. The next year Harvard turned the tables, scoring 35 points to Tech's 43. The Institute team won in 1906, but Harvard again won out the following year.

In 1908 Tech won the first of its two great consecutive victories, the score being 35 to 46. In this race three Tech men beat the record for the course and H. H. Howland, 1909, made the present Tech record. It was in this race that H. Jaues of Harvard made the record for the course of 23 minutes, 24.5 seconds.

The next year Tech won again. Captain Watkins of Tech finished first, H. S. Benson second, and With-

Continued on page 3, column 1

1914

1915

- |                 |            |
|-----------------|------------|
| Affel, Captain. | Africa,    |
| Hayward,        | Clark,     |
| Richardson,     | Livermore, |
| Schwarz,        | Coleman,   |
| Whitcomb,       | Norton,    |
| Trufant,        | Marion,    |
| Shepard,        | Dunn,      |
| Salisbury,      | Brown,     |
| Favorite,       | Pinkham,   |
| Doremus,        | Noyes,     |
| Keith,          | Parker,    |
| Dawson,         | Newman,    |
| Ober,           | McNeil,    |
| Morrill,        | Sabin,     |
| Nickerson,      | Waldran,   |
| Snyder,         | Buethier,  |
| Gould,          | Gablier,   |
| Owne,           | MacAuland, |
| Heroult,        | Perrin,    |
| Whitten,        | Sifton,    |
| Smith,          | Jesenophi, |
| Morse,          | Hanchelt,  |
| Brotherton,     | Hefter,    |
| Wagner,         | Renis,     |
| Sampson.        | Swain.     |

Coaches.  
H. F. Ferguson. C. A. Dusyer,  
Counter, W. R. McEwen.  
Manager, C. P. Fiske.

Counter Manager, Lyons.

Special Field Day Luncheon, Union, 12 to 2

# 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  
 L. W. Chandler, 1912.....Managing Editor  
 C. A. Cary, 1912.....Assignment Editor  
 A. H. Waitt, 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, 1915.....Societies

### News Staff.

In charge of departments:  
 M. Lewis, 1913.....Institute  
 E. W. Mann, 1914.....Athletics

### Business Board.

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

Office, 42 Trinity Place,  
 Telephone, Back Bay 2184.

All communications should be addressed to the proper departments.

Subscriptions, \$2.00 per year, in advance. Single copies, 2 cents.

Subscriptions within the Boston Postal District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

Printed by Rulter, 147 Columbus Ave.

FRIDAY, NOV. 3, 1911

### IN CHARGE OF THIS ISSUE.

EDITOR—L. W. Chandler, 1912.  
 Associates—F. C. Foute, 1915.  
 M. B. Lewis, 1914.  
 L. H. Graham, 1914.  
 P. Keller, 1915.  
 E. W. Mann, 1914.  
 W. B. Spencer, 1915.

The editors of THE TECH wish to greet all who are attending the events occurring on the greatest day of the year for our under-classmen. This day celebrates the tenth anniversary of the inauguration of the deciding Class Supremacy at the Annual Field Day. In previous years this had been carried out in a brutal and unmanlike manner, not in agreement with the inscription over the gate at the Field.

"Not the quarry, but the chase  
 Not the laurel, but the race,  
 Not the hazard, but the play,  
 Make me, Lord, enjoy alway."

The games as run off the last eleven years have proved a very satisfactory method of deciding the question of superiority between the two lower classes and each year the attendant rowdiness has gradually disappeared, until now we find that the losers turn out as good losers as the winners do good winners.

As for today's games, let the best teams win and all will be happy.

### SOPHOMORE DINNER.

First Class Banquet Will Be Held in the Union Tonight.

The Sophomore class will hold their annual dinner tonight in the Union Dining Room. Professors Burton and Hayward will be the speakers, and the results of the recent class elections will be announced.

The idea of the second year men in holding the dinner the evening of Field Day is a new one inaugurated by 1914, and it is hoped that it will be taken up by future classes if it proves successful.

The dinner will be finished early, so that the fellows can get down to the theatre before 8 o'clock. In connection with it might be added that it is planned to have the Sophomores march in a body from the Union down to "Ethel's House."

Why hasn't the file of Techniques been restored to the case in the Union this year as usual?

Have you got your Field Day Ticket yet? Both those for the Field and for the Theatre are going fast.

## FIELD DAY OUTGROWTH OF OLD CANE RUSH

### Increasing Roughness Of Latter Compelled Its Replacement By Field Day.

Eleven years ago the annual class cane spree, which had decided for many years the question of class superiority, was won by 1903. In all previous years the frays had been full of brutality, property destroyed and lives put in danger. But it fell to the lot of this rush to be the worst of all. Victory was achieved, but saddened and dampened by the death of one of the contestants as a direct result of the contest in which he had engaged.

The progressiveness of the entering class, together with the Advisory Council, asserted itself in the following year, when they took steps to abolish the bloody, brutal cane spree.

Field Day was the direct result of this agitation, and the Faculty were so taken with the idea that they voted the students a holiday for the better enjoyment of the sports. There were three of these named in the original articles on Field Day—Football, Relay and Tug-o-War, the same three in which the lower classes engage this afternoon. The object which was always kept in view was that the greatest number of men should participate in the events of the day.

To carry out this idea the Tug-o-War as adopted from a form of the sport which had existed at Amherst for many years in which the losers were pulled into the water by the winning team. This was not possible at Tech, but they decided to modify the sport and use it with twenty-five man teams from each class.

The Relay Race was also changed from the usual four-man team to one having twelve men each running 220 yards. It was hoped in this way that the entering class would have more of an even thing than they would if four of their men had to go against four of the Sophomores who might all be Varsity Track men. This has helped to a great extent, but the Freshmen have never been able to win the event but once, and that was the first year.

Football is the only one of the events which was not altered to fit the occasion. It was used at this time so that a still larger number of men would be allowed to get into the actual competition for the honor of their class.

From 1901, Field Day has been contested every year with a constantly increasing interest, not only on the part of the two classes at issue, but also on the part of the Institute as a whole. A cup has been offered on which the numerals of the winning class is engraved each year. This cup is on exhibition in the Union all the time and is used as a loving cup every year when the men who contested at the Field gather in the Union for a dinner. At this dinner the Field Day Cup is given by Samuel Cabot, is passed around from hand to hand, never being allowed to touch the table until every man has drunk from it. Since the origin of Field Day there have been but two classes fortunate enough to have its numerals on the cup twice. These were the classes of 1905 and 1913.

### SOPH BALLOTS DUE.

All ballots for Sophomore officers are due this noon at 12 o'clock sharp. No ballots will be received after that time. Unless dues have been paid the votes are worthless, so if the voter has not already seen Treasurer Owen he should enclose \$1.50 with his ballot.

Most any good Tech man would bet "their sweet existence" on Peggy Wood.—"T. T. R."

As Fred Walton says: "Yes, madam. I do, madam. Thank you, madam. Good morning, madam."—"T. T. R."

## OLD COLONY TRUST COMPANY

Capital and Surplus, \$12,500,000.00

Main Office, Court Street

Branch Office, Temple Place

SAFE DEPOSIT VAULTS AT BOTH OFFICES

## L. PINKOS, College Tailor

7 and 9 State St.  
 BOSTON

Harvard Square  
 CAMBRIDGE

Established 17 Years

Pinkos, the well-known College Tailor of Cambridge and Boston, offers 10 per cent. discount to all "TECH" men on purchases this year. Prices range from \$35.00 to \$50.00.

L. PINKOS Boston Store, 9 State Street

## 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 CORPORATION'S

## The Ansonia Brass & Copper Co.

NEW YORK CITY.

Manufacturers of

Bare and Insulated Copper Wire and Cable.

Drawn Copper Rods, Bars and Strips.

Brass Sheets, Rods, Wire and Tubes.

Sole Manufacturers of

"TOBIN BRONZE"

(GALV. ANSONIA BRASS)

## HOTEL BRUNSWICK

BOSTON

EUROPEAN AND AMERICAN PLANS

HERBERT H. BARNES, Proprietor.

# COPLEY HABERDASHER

We Cater to Tech men

New Fall Line of CHENEY SILK TIES at 50 cents

OUR SPECIAL  
SILK ACCORDION KNITTED TIES at 65 cents  
\$1.00 Elsewhere

PHOENIX HOSE  
SILK, Four pairs for \$2.00 Guaranteed for 3 months  
Silk Lisle, Six pairs for \$1.50 Guaranteed for 6 months  
Replaced at our own store.

Complete Line of  
\$1.50 BATES STREET SHIRTS  
Excellent selection of Fall patterns

A New and Complete Line of RAINCOATS  
Prices \$5.00 to \$15.00

ONE DAY LAUNDRY

THE FIRST HABERDASHERY FROM COPLEY SQUARE  
22 HUNTINGTON AVE.

**TECH vs. HARVARD**

*Continued from page 1*

ington of Harvard third. Benson and Withington are now the captains of their teams and should run an interesting race this afternoon. This race well showed the methods of Coach Kanaly in coupling up the men. Nearly all of the men finished in pairs, as against single finishes of the Harvard team. The time for this race was 24 minutes and 13 4-5 seconds.

Last year Harvard just squeezed out a victory, the Tech team lacking one man of winning. The Tech men ran remarkably close together. There was only 27 seconds difference between the first and fifth men. Harvard finished the first three men and Tech the next five. Captain Watkins distinguished himself in this race and incidentally gave a fine example of Tech spirit in thinking of his team before himself. Following the regular tactics of keeping the men bunched, he gave up the chance to finish among the first in order to keep his men together. His loss will be keenly felt.

H. S. Benson has been elected captain this year. He entered Tech from Syracuse. In his Freshman year he finished 12th in the cross-country trials and captured fourth place in 1909. In that year he took second place in the Harvard race. During the winter he ran on the two-mile relay. Last year he finished sixth in the Harvard race. This year he had the misfortune to sprain his arch. On account of this the team unanimously voted him to the team, with the approval of the coach, without a trial. This is the first time that a man has made a Tech cross-country team without making a trial. Incidentally this is another example of fine spirit in giving up a place on the team to a man who could have been forced off on account of not being in condition to take the trials.

E. E. Ferry, another of the best men, ran 15th in the trials in 1909 and made the team in 1910, running 7th in the trials, but was kept out of the races because of a bad leg. Last year he finished 8th in the Harvard race. He has been one of the most consistent members of the track team. Last spring he won the two-mile in the Brown meet. This year he finished first in the trials and it will probably be learned that his time will compare well with the record.

K. Cartright commenced his cross-country work in the intercourse and Freshman-Sophomore races in 1909. He finished 8th in the Harvard race of that year and 13th the following year. This fall he was attacked by ptomaine poisoning and will be out of the Harvard race. He probably will be in shape for the Brown race and the intercollegiate.

R. D. Bonny made the team last year, running 10th in the trials. This year he finished third in the trials.

A. F. Nye finished 15th in the triangular meet of last Field Day. He was the only Freshman on the team.

E. T. Marceau was not primarily a cross-country man, but ran on the two-mile relay. Although handicapped in several ways he has made good. His winning the three miles in the meet last Saturday shows him to be a very good man.

G. C. Shedd finished second in the trials this year. He has run the two-mile on the track team and won second place against Brown and third against Dartmouth, and in the intercollegiate. He is expected to make a good showing.

R. T. Palmer entered Tech this year from Dartmouth. He ran last year on the Dartmouth cross-country team. C. A. Cary ran two years on the Bowdoin cross-country team. He has shown up well in the hare and hound runs and finished 7th in the trials.

The Aero Club forgot to put the year on that poster calling for a meeting Monday, October 27.



**FIELD DAY CUP**

**INTERCLASS FOOTBALL**

*Continued from page 1*

sive line of '14, all heavy men of previous experience, except, possibly, Ruff, at right guard. Duffield and Burnham have proved to be aggressive tacklers as well as good defensive players. Their opponents, Lee and Proctor, are of like calibre and greatly strengthen the Freshman line.

The '14 backfield, a trifle lighter than the '15 trio, has appeared fast and have shown ability for good punting and are certainly well generalised by the new quarter, Mitchell, who has shown fine football sense in his games and practise. Williamson, his understudy, is also perfectly capable of running the squad if a substitute is needed for his team mate.

All of the 1914 men have played good football during their Prep School courses. Hines, the husky right end, was a mainstay for the Farmington High and Burnham for Needham High, Thompson and Storke are college men from Dartmouth and Amherst, respectively. Morgan is a Betts Academy man and Hardy comes from Pynchard Academy at Andover. Duffield, the aggressive tackler, comes from Blair Hall, famed for strong teams, and Mitchell, the snappy quarter, played for Hingham High. The rest of the backfield, Fox, Captain Bryant and Van Etten, occupied positions in the line at Roxbury Latin, Chicopee High and Boston Latin, respectively.

So much for the comparison of the two teams which clash today. One of the best matches ever seen at Field Day ought to take place when these two aggressive combinations meet.

**1915 Football**

Yesterday afternoon the Freshman football team held its most important practise. The work consisted mainly of signal practise with a short scrimmage and final instructions from Coach Swanson. The work was of a somewhat secret nature, as it took place outside of Tech field. All of the special plays which have been gotten up for the occasion were run through with vigor. Every man was on his toes and in the game all the time, realizing that he was working for a position on a team which was to represent the class of 1915 and fight against its bitterest enemy, the class of 1914.

All afternoon the team showed the same willingness to get down and work, and work hard, too, which has characterized the practise every afternoon this week. The speedy backfield ran off play after play with a dash that will tell in this afternoon's

game. The strong line worked together as one man, and in fact, the whole team did.

Captain Hadley showed his usual fight and vigor in striking the line or skirting the ends. He has been out for practice regularly and has kept the team going all the time. No better man could be found to run the team than the all-interscholastic quarterback, Scully; he is a good heavy player and handles the team well, and his excellent work should be an important factor in today's game. Although O'Brien has not been out for regular practice he is a man who is invaluable to the backfield. Once he gets started with the ball it will take a speedy man to catch him. Owing to his fine work he will probably start today's game at left halfback. McDevitt is another good man for this position, and will also get in the game. The coach has kept him out of the scrimmage lately on account of a bad knee, which is all right now, however. Hawgood and Morse are both likely to get into the game at fullback. Both have been doing fine work lately, which makes it harder to choose which man shall start the game.

Howlett and Morrison are doing fine work in the end positions. They are fast getting down under punts and stop all attempts to get around them. Haslam and Morrison also show good ability to fill the end positions. They get in every play and break up many efforts to gain in their direction. In the tackle position Lee is a star, playing low and tearing big holes in the opposing line. Upon him will fall the brunt of the punting this afternoon, and for this work there is no better man to be found. At right tackle Proctor is a valuable man, being strong both on the offense and defense. His tackling is sure and he forms an important factor in the fast low-charging offense.

Crowell and Murphy, the two right guards, are both powerful men and they can take care of any opponent who may hit them. The corresponding position on the other side will be filled by either Mocre or Keleber. Both of them get in every play and can smash up the opposing line when the quarter calls for a gain in their direction. Boynton at center completes the Freshmen's strong line. His passing is accurate and snappy. The Winchester game showed his ability to follow the ball when he caught a forward pass and sprinted for a touchdown.

**TUG-OF-WAR TEAMS  
STAND BY ROPE**

**Sophomores Have Experience to  
Offset Freshmen's  
Weight.**

**1914 Tug-o'-War.**

The present even-numbered class is represented by the best Tug-o'-War team that experience and good coaches could pick from the large bunch of men that the class sent over to the oval every afternoon for the last five weeks. The squad has for many a long day put forth all its efforts under the watchful eyes of the man, who with the experience of the last three years to help him, was unanimously elected by the squad as their coach, C. A. Duyser, 1912. He is a man who pulled on the '12 team both years and last year coached the 1914 team in conjunction with H. L. Woehling, 1912.

Only the heaviest of the men were chosen by him, for this has been pointed out as almost a necessity in years gone by. He paid a fine tribute to those of the men who lost out merely on account of lack of weight, and thanked them for the work that they had done in giving the numbers so necessary for any kind of practise.

The business-like methods and coaching ability have brought out of the big squad a fine, faithful, well-balanced team, of which every man is fit for his position and able to pull his best. The team is a very powerful one and should be able to pull the Freshmen off their feet at the shot of the pistol.

Of the members of last year's squad who are on the present team we find Whitcomb, Whitten, Captain Affel, Hayward, Heroult, Snyder, Trufant, Sampson and Hall.

Smarting from the overwhelming defeat of last year the men will trot onto the Field at the signal, full of fight and determination to pull the Freshmen to cover in the shortest possible time. Only on this way can they be sure to avoid the disgrace of not winning at least one pull in their Freshman year.

**1915 Tug-o'-War.**

After five weeks of faithful training the Freshman Tug-o'-War team, now a finished product, is ready to take the field and help gain renown and honor for its class. The members of the team realize that no easy task confronts them, for the Sophomores have been putting forth every effort to turn out a team that will retrieve their defeat of last year. Not only this, but the Freshmen know in case of a tie in the other events the responsibility of a victory and the future rating of their class rests upon their shoulders. With this fact plainly before them, the 1915 Tug-o'-War team is a most determined organization and no stone is being left unturned that might better their chances. To the lower classes the Tug-o'-War and other Field Day sports take the place of rushes and other dangerous forms of strife resulting from class rivalry. In the Tug-o'-War during the past years the Freshmen have been credited with the majority of victories and this stands as a reason for their making good.

If the 1915 Tug-o'-War team comes out of the pull victorious, the lion's share of the credit should be given to Coaches Carlson and Cromwell of the Junior Class, who willingly gave their time and energy to develop the best team possible. Both men came out daily and put enthusiasm into the men and untiringly drilled the men in the rudiments of the game. If the team is not a winner it will be no fault of these men, and no matter what the result may be, they should be voted the unanimous thanks of the class.

One of the hardest problems that the coaches had to deal with was the selection of a final team. They are

*Continued on page 6*

**STUDENTS SEE SLIDES  
BY STUDEBAKER CORP.**

**Automobile Knowledge and Shop  
Practice Explained to  
Many Tech Men.**

A very interesting stereopticon lecture was given last evening by Mr. Weingart, under the direction of the Studebaker Corporation, on the machinery and assembling of the automobile.

Mr. Weingart first gave a short history of the pictures. They were first given in order to illustrate the automobile to dealers who would not otherwise know of its manufacture. They were first shown about eight months ago, and since then have been seen in all the large cities between Boston and Chicago. This is the second technical school which has heard this lecture, it having been shown a short time ago before the students of the Worcester Polytechnic Institute.

The first reel showed the chemical laboratories, in which the carbon and sulphur tests were carried out, and the tensile strength tested. This reel also showed the moulding in the foundry, the pouring of the iron, the casting of the axles and the welding machines. The great strength of the axles is realized when one sees that they are sometimes given ten twists in the testing machine.

The second reel illustrated some feats of difficult forging of crankshafts and front axles, the machining operations, the drill gigs and a special milling machine, recently invented.

The third reel illustrated the operation of the various machines, the blanking out of sheet metal for the bodies, the boring of the cylinders, and the drilling of the transmission and differential case.

The fourth reel showed how the cap hardening was carried out, and the automatic screen machines and the assembly of the motor. The last reel showed the completion and assembly of the car and the assembly of the chassis.

The pictures were of the highest quality and were well received and enjoyed by all. The men more than half filled the hall, and they were appreciative and interested in the whole series. They were full of fun and it was easy to see that it was the eve of a holiday.

**FIELD DAY OFFICIALS.**

**Full and Complete List For  
Reference During Day.**

The full list of the officials for the big day is made as follows from that of the management. The general managers are: The Varsity track manager, Max Waterman, and the assistant manager, Jimmy White. The marshals from 1912 are: H. E. Kebbon, B. Torrey, J. E. Whittlesey, H. L. Woehling, D. M. Wyman, J. L. Barry, D. F. Benbow, D. E. Bent, R. Cremer and H. Greenleaf.

The football officials are: Referee, A. W. Ingalls of Brown; umpire, C. McCarthy of Salem; field judge, F. J. Hoey of the Boston Journal; head linesman, A. McCormack, Brookline.

The Relay Race will be run off under the following men: Referee, J. L. Batchelder, '90; judges, J. A. Rockwell, '96, P. W. Dalrymple, '12, A. W. Rowe, '01. For Tug-o-War: F. H. Briggs, '81, E. W. Taft, '13. The inspectors: E. H. Schell, '12, R. H. Fox, '12, S. W. Selfridge, '13, G. P. Capen, '13. The timers: W. C. Towne, Bowdoin, W. R. Bylund, '13. Clerk of course, B. B. Osthuus, L.L.G. A. A. starter, J. J. McNamara, D Street Gym.

For the Cross-Country Race: Referee, George V. Brown, B. A. A.; starter, K. D. Fernstrom, B. A. A. Judges at finish: Col. G. B. Billings, B. A. A.; C. C. Little, Harvard; Carl Gram, Technology; F. H. Briggs, M. I. T. The timers: G. H. Carter, B. A. A.; Barrett Smith, Cornell; H. O. Von Schuckman, B. A. A.

**WINTER CONCERT DATE  
EARLY IN DECEMBER**

**Announcement Made to Man-  
dolin Clubs Yesterday After-  
noon in Union.**

At the rehearsal of the Mandolin Club in the Union this afternoon, the management of the Glee Clubs made their first announcement of the coming winter concert, the date of which is December 15th, and the place is Copley Hall.

The concert will, as in times past, be followed by dancing, and for this, if for no other reason, should be well attended by the undergraduates. The tickets will be on sale in about two weeks' time, and may be obtained from any member of the clubs.

No cut in members on the Mandolin Club has been made as yet, but there are several who will be dropped in a few days, either for cutting the rehearsals or for lack of ability in their work. The club will stand with this number until after the first concert, when the final cut will be made. This last cut will be necessitated by the impossibility of taking the full number on the long trip which the clubs are to take in the winter.

The club is already showing the advantages of working under a professional coach, and the men are much more interested in their rehearsal work because the music is more popular and up-to-date. This is, of course, no reflection on the part of the men against the old system, but merely an opinion of the superiority of the new. The club is much stronger than it has been for some time past, and it should make itself heard in all of the concerts that the clubs are to give this year.

**1914 RELAY**

*Continued from page 1*

A. Oettinger is expected to make the third best showing. He was a substitute on the indoor relay and has also run cross country.

B. W. Bowler, A. R. Stubbs, A. T. Wyman, S. A. Smith, F. L. Hurlbutt, A. Cranckshaw, and H. S. Wilkins were on last year's relay and are all fast men. Wilkins won the 100-yard dash last Saturday. The other members of the team are A. C. Dorrance, D. L. Sutherland, T. H. Huff and J. W. Bolton.

**1915 Relay.**

It is now the day of the race between the Freshmen and the Sophomores, and we find the 1915 Relay men eager for the fray with their rivals. They took as promising a bunch of youngsters as has entered the State for quite a long time. They are confident of giving the Sophs one of the hardest races ever seen on Field Day and if they do not win it will not be because every man has not exerted every ounce of strength that he is capable of giving.

This same conscientiousness has characterized the new men's work from the start. A large number of men reported early in the year and remained out working regularly up to the present time. The Relay squad has been the only one which has not kept up the incessant call for more men. Although every man who came out for the team was needed and filled a useful place. Perhaps the greatest characteristic of the Freshman team this year is the closeness of the times made by the members in the trials.

The team was very poor in flag passing at the start and did not seem to get the idea of making a quick and sure pass for a considerable time. But after a few weeks of consistent practice, the passing has turned out to be very good and the Freshmen hope to win out by gaining time in making their fast passes.

The Freshmen themselves are not predicting the outcome of the races, but there is a smothered feeling of confidence for one another, which means a fighting crowd will meet the Sophomores this afternoon.

**C. F. HOVEY & CO.**

BOSTON, MASS.

**Men's Highest Grade Underwear**

**White and Natural Merino Shirts and  
Drawers in Fall and Winter Weights.**

**\$1.00 per garment upward**

**Balbriggan Shirts and Drawers in Fall and  
Winter Weights.**

**\$1.00 per garment upward**

**Balbriggan Union Suits in Fall and Winter  
Weights.**

**\$1.00 per garment upward**

**We also carry a large assortment of Underwear  
in Silk, Silk and Wool, Ramie and Linen.**

**Smoking Jackets and Bath Robes**

**Smoking Jackets made of double faced material,  
plain front with striped or plaid border.**

**\$5.00 to \$12.00**

**Lounging or Bath Robes in plain, figured and  
striped effects.**

**\$5.00 to \$45.00**

**You'll need that  
HEAVY OVERCOAT  
For the Football Game**

**Order Now and Don't  
Be Disappointed**

**TWENTY-FIVE DOLLARS UPWARD**

**BURKE & CO., Inc., - TAILORS**

18 School Street, Boston      7 Main Street, Andover  
343 Washington Street, Boston      Hanover, N. H.  
1246 Massachusetts Avenue, Cambridge

**Thayer, McNeil & Hodgkins**

**DESIGNERS OF COLLEGE FOOTWEAR**

47 Temple Place      Affiliated with Co-operative Society      15 West Street

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

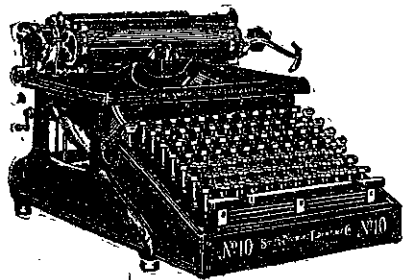
**Pomander Walk**

**SHUBERT THEATRE**  
Evenings at 8  
Wed. and Sat. Matinees at 2  
Maeterlinck's Exquisite Fantasy  
**THE BLUE BIRD**  
NEW THEATRE PRODUCTION

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

THE AUTHORS' PRODUCING CO.  
(John Cort, President), Announces  
"THE DRAMATIC THUNDERBOLT"  
**THE GAMBLERS**  
BY CHARLES KLEIN,  
Author of "The Music Master" and "The  
Lion and the Mouse."  
With JANE COWL and ORME CALDARA

**Castle Sq.** Daily 2 and 8  
Tel. Tremont 5  
Mr. John Craig Announces  
**The Right of Way**  
Prices 15c, 25c, 50c, 75c, \$1.  
Down Town Ticket Office—15 Winter Street



New Visible Model No. 10  
**THE SMITH PREMIER**  
TYPEWRITER CO., Inc.  
15 Milk Street, Boston, Mass.

**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

**Our Special Offer**  
FULL DRESS SUIT  
Silk lined throughout . . . at \$45.00  
C. A. Patten & Co., Merchant Tailors  
43 Tremont St., Carney Bldg, Boston

**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. 2323  
Key Number Connecting Five Phones (1-4f)

SOMEBODY exchanged raincoats with me at the Armory Wednesday. I would like mine and I am willing to return his. F. E. Buckley. 1915. (32-1t)

LOST—A. D. S. Pin. Reward for return to Cage, addressed to A. E. B. Hall. (32-4t)

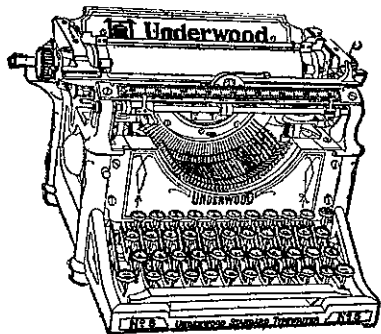
**MUSEUM OF FINE ARTS.**

Sunday Docent Service, November 5. Mr. Kojiro Tomita will speak on the study of Japanese painting in the Japanese Study at 2.30 P. M. Mr. Sidney N. Dane will speak on "Some Examples of Greek Sculpture" at 3.15 P. M., in the Fifth Century Room. Free to all.

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)

LOST—A small gold handle pen-knife engraved with the initials J. A. T. Please leave note at Cage for J. A. Tennant. Reward. (39-2t)

LOST—On Field, Saturday, a grey, turtle-neck sweater. Finder please return immediately to Earl E. Ferry via Frank Kanaly, or Bill Hines. (31-2t)



LOST—A bunch of keys at Tech Field. Reward for return to Cage. (30-3t)

**THE TECH.**

News Board Meeting in Upper Office Thursday, at 5 P. M. All men posted on list to attend.

**INTERCLASS FOOTBALL**

*Continued from page 3*

Hadley, Howlett and Proctor played on the team at Rindge Manual Training School. O'Brien has played for three years at Exeter and before that at English High. McDevitt was a member of the Providence Technical High team. Hawgood is a Cleveland High School player. Scully, last year's all-interscholastic quarterback, comes from St. John's Prep. Boynton played center at South Framingham. Lee was a tackle on the Cushing Academy team. Keleher is a guard from Roxbury High. Wardwell is a Stamford, Conn., player.

**TUG-OF-WAR**

*Continued on page 3*

to be congratulated, for without favoritism on their part, they have chosen a team and their choice was unanimously received without complaint by the squad. P. MacWerlich of Ashland, North Carolina, was elected captain and has the backing of the entire team. He is six feet three inches tall and weighs 179 pounds. He has proved himself to be very capable as a leader.

At the breaking up of the final practise of the Freshmen and Sophomore teams yesterday afternoon they showed their spirit and good feeling by giving lusty cheers for each other.



EXCLUSIVE STYLES

**Knickerbocker**

Buy from the Maker of

Swell

College Shoes

on new lasts, finest leather, heavy soles.

**E. W. BURT & CO.**

32 West Street, BOSTON

**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 FROM 6.30 A. M. TO 8.30 P. M.

**Apollo**

THE CHOCOLATES

THAT ARE DIFFERENT

FOR SALE AT THE UNION

**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.

18 BOYLSTON STREET, BOSTON, MASS.

Rooms 14 and 15

Telephone, Oxford 109

BACK BAY BRANCH

**State Street Trust Co.**

130 MASSACHUSETTS AVENUE, BOSTON

Safe Deposit Vaults

Credits interest monthly on accounts of \$300 and over

MAIN OFFICE: 38 STATE STREET

All Brushes, Razors and Towels  
Sterilized by Patent Process

Named Cups Furnished Free  
to Regular Customers

**"Tech Barber Shop"**

COPLEY SQUARE, 585 BOYLSTON STREET

Under New Management

Everything in keeping with the location

**Hair Cutting a Specialty**

BOOTBLACK

ELEVATOR