

THE TECH

VOL. XXXV. NO. 41.

BOSTON, MASS., MONDAY, NOVEMBER 15, 1915

PRICE THREE CENTS

CHEMICAL SOCIETY HOLDS FIRST MEETING

**Dr. W. R. Whitney '90 Gives
Talk On Industrial Efficiency
—Two Trips Announced.**

The Chemical Society's first meeting of the year was held in the Union last Friday evening in conjunction with the Boylston Chemical Club of Harvard. The speaker of the evening was Dr. W. R. Whitney, Technology '90; former professor of Theoretical Chemistry at the Institute and for some time co-worker with Dr. Noyes in the early years of the research laboratory of Physical Chemistry here. He is founder and director of the research laboratory at the General Electric Company's plant at Schenectady. Dr. Whitney is ex-president of the American Chemical Society and also of the American Electro-chemical Society, and is now a member of the recently established Naval Advisory Board, representing the American Chemical Society.

Dr. Whitney quoted the words of the prophet of old: "And your young men shall see visions and your old men shall dream dreams." He said: "One could preach a sermon on that text and talk chemistry all the time. No matter what the prophet had in mind, he had a keen eye. Old men dream dreams and young men do see visions. It's a good scheme. My experience teaches me that knowledge, cut, dried and packed away in blocks, labeled, mislabeled and un-

(Continued on Page Three)

GLEE CLUB CONCERT

**Well Received At Wakefield
Last Thursday Evening.**

The Glee Club held its first concert in Wakefield last Thursday evening where they assisted at a bazaar and entertainment under the auspices of the Harmony Chapter of the Eastern Star Lodge. The club sang Foote's "Bedouin Song," and Bui-lard's "Winter Song" with much spirit, their efforts meeting with much favorable comment. As encores they used "Kentucky Babe" by Geibel and a medley of ragtime arranged by I. B. MacDaniel '16.

E. H. Raymond '17 made his debut as soloist with the clubs. His rendition of the "Invictus" by Bruno Huhn was exceptionally well received.

ADVISORS DINNER

The T. C. A. advisors' dinner was held last Friday evening, thirty men being in attendance. The speakers were Dean Burton, Mr. W. Snow '82, Professor Haven and Mr. Bemis, who is taking an important part in the development of undergraduate activities across the river.

EMINENT SCULPTOR LECTURES ARCHITECTS

**Mr. Hugh Cairns Illustrates His
Address By Actual Work
Upon Clay.**

The second of the seven scheduled smokers of the Architectural Society was held last Friday evening in the studio. After a few opening remarks, President Brophy introduced the speaker of the evening, the sculptor, Mr. Hugh Cairns. Some of the work of Mr. Cairns in Boston is the statuary on Trinity Church, the State House, the Mt. Vernon Church, the New England Conservatory of Music and the Fine Art Museum.

The talk was illustrated by actual modeling. Mr. Cairns first explained the modeling board and the first principles of his art. He worked various designs, explaining as he modeled that, unlike the woodcarver, who cuts out his shadows, the sculptor must build his high-lights to cast their shadows. He said that while his work was rough, it would give the student an idea of what could easily be accomplished by correctly placing the simple highlights. This he illustrated by modeling several designs.

The audience highly appreciated the clever anecdotes with which Mr. Cairns, who is a close friend of Harry Lauder, interspersed his talk. He invited the Society to his studio where he could demonstrate the making of casts to better advantage.

(Continued on Page Three)

MUSICAL CLUBS CONCERT

**Program To Be Given At Frank-
lin Square House.**

The combined Musical Clubs will give their first concert of the year at the Franklin Square House tomorrow night at 8.15 o'clock. The program is a good one and will consist of the following selections: Skipper Susie Green, Serenade, and Jubilee Rag by the Mandolin Club; Popular Medley and Dat Yam Rag, by the Banjo Club; Winter Song, The Cat With A Baritone Voice, and the Bedouin Song by the Glee Club. There will also be a solo and a reading, the concert closing with the Cardinal and the Grey by the combined clubs. A dance will follow the concert.

The men are requested to be at the Franklin Square House promptly at 7.45 o'clock. For the benefit of those who do not know how to get there one of the club members will be in the Union at 7.30 o'clock to conduct the men to the place.

SHOW CANDIDATES

All candidates for Assistant Publicity Manager will meet Publicity Manager R. S. Stevens this afternoon at 5.00 o'clock in the Show office.

BROWN OF TECHNOLOGY CROSS COUNTRY WINNER

**Institute Team Gets Third In
New England Run—Maine
Is The Winner.**

Although Captain R. G. Brown of Technology was the first to cross the tape in the fourth annual New England Intercollegiate Cross Country run last Saturday at Franklin Park, his team mates were not able to fin-



RAYMOND G. BROWN '16
Individual Winner N. E. I. C. A. A.

ish ahead of the strong Maine and Dartmouth aggregations. Maine was the winner with a total of 59 points, four of her men being included in the first nine to score. Dartmouth was

(Continued on Page Five)

E. E. SOCIETY MEETING

**Mr. Morse To Speak—Trip To
Simplex Co. Plant.**

The next meeting of the Electrical Engineering Society will be held in the Union at 8.00 o'clock on November 18th. Mr. Henry A. Morse of the Simplex Wire and Cable Co. will speak on the subject, "The Manufacture of Rubber Insulated Wires and Cables." Mr. Morse is vice-president of the company and is a speaker of ability. The lecture will be well illustrated with lantern slides.

A trip to the Simplex Co.'s plant will be arranged to come shortly after November 18th. This will give the men a chance to actually see the operations described in Mr. Morse's lecture.

WIRELESS SOCIETY

The second meeting of the year of the Wireless Society will be held next Thursday in Room 11, Eng. B, at 4.30 o'clock. Mr. H. G. Powers, who is erecting the new aerial at Tufts College, will speak.

DECEMBER MONTHLY OUT TOMORROW

**Cartoons And Articles On The
Tech Show And
Wrestling.**

Critics say that the Tech Monthly ranks as high as any college magazine. If you are an engineer or intend to be one some day do not fail to read the Technology Monthly and Harvard Engineering Journal, the December issue of which will appear tomorrow. This issue is full of things attractive to Technology men. "The Development of the Tech Show" by Charles R. Lord, General Manager of "Getting A-Cross," last year's Show, is full of enthusiasm and will be especially attractive after the dinner and exhibition of last Thursday evening. As its title suggests, it tells how the Show was evolved.

G. H. Stebbins '16, manager of the wrestling team, has an article, "Why is the Wrestling Squad," in the Technology Monthly. This article is illustrated by some unique photographs of the squad in action. It tells what you can get out of wrestling.

Do you know how they mine gold out west under present-day conditions? Then read the article of Charles Livermore '03, on "Mining in Northern Ontario," in the December issue of the Monthly.

(Continued on Page Six)

C. E. SOCIETY

**Mr. Curtiss To Speak On En-
gineering Prospects.**

Tomorrow, at 7.45 o'clock, Mr. E. L. Curtiss of the Massachusetts Civil Service Commission will address the Civil Engineering Society on "The Engineering Aspects of Civil Service." This talk is of special interest at the present time because of the large number of Institute men who are considering taking the New York State Civil Service examinations which will be held on December 11th in New York.

FRESHMAN NOMINATIONS

A correct list of all the 1919 nominations will be printed in Wednesday's issue of The Tech. It is not available for this issue.

CALENDAR

Monday, November 15, 1915.

5.00—Candidates for Show Publicity Department. Show Office.

5.00—Candidates for Assistant Manager Wrestling Team. Gym.

Tuesday, November 16, 1915.

7.45—Chemical Engineering Meeting. E. L. Curtis, Speaker. Union.

8.15—Musical Clubs' Concert. Franklin Square House.

THE TECH

Entered as second-class matter, Sept. 16, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.
Published tri-weekly during the college year by students of the Massachusetts Institute of Technology.

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

MANAGING BOARD.

H. P. Claussen, '16....General Manager
E. F. Hewins, '16..... Editor-in-Chief
H. E. Lobdell, '17.....Managing Editor
B. F. Dodge, '17...Advertising Manager
F. W. Dodson, '17....Circulation Manager
R. J. Cook, '17.....Treasurer

NEWS BOARD

D. E. Bell, '17.....Sporting Editor
F. A. Stearns '17.....Institute Editor
A. R. Brooks, '17.....Societies Editor

IN CHARGE OF ISSUES

E. W. Rounds, '17 A. H. Wenzel, '17
W. F. Johnson, '17

ASSOCIATE EDITORS

A. P. Sullivan, '17 R. E. MacDonald, '17
J. W. Damon, '18 B. A. Thresher, '18

NEWS STAFF

M. A. L. Eales, '18 A. N. Pray, '18
K. Reid, '18 E. A. Grunsfeld, Jr., '18

OFFICE HOURS.

(Daily except Saturday)
General Manager5.00 to 6.00 P. M.
Editor-in-Chief5.00 to 6.00 P. M.
Managing Editor1.00 to 1.30 P. M.
Advertising Manager ..5.00 to 5.30 P. M.
Treasurer5.00 to 6.00 P. M.

Subscriptions, \$1.50 per year in advance. Single copies, 3 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.

MONDAY, NOVEMBER 15, 1915.

ARE FINANCES IMPORTANT?

The offence of the fourteen men who absented themselves from the Finance Committee meeting last Thursday deserves the immediate attention of the Institute Committee. The Finance Committee was organized for the purpose of preventing any of the student activities from incurring debts at the end of the school year through the mismanagement of incompetent treasurers. The reading of a statement of the financial condition of an activity is not the important feature of these meetings; following the reading of the statement there is a general discussion of ways and means for bettering the finances of that organization, and it is this function which absolutely requires the attendance of a representative of the activity, preferably the treasurer. The levying of a fine is perhaps the least effective means of getting results from officers who are either unwilling or incompetent to discharge their duties, but we sincerely hope that it will not be found necessary to take more drastic measures to recall the offenders to a sense of the responsibilities which have been entrusted to them.

THE UNION FILES.

At the beginning of the year men were asked to hand in two schedule cards with the rest of their registration material. One of these cards was for the use of the Registrar,

SECOND MEETING OF FINANCE COMMITTEE

Lawrance Chosen Secretary—Delinquent Activities To Be Fined.

At the second meeting of the Finance Committees only twelve out of the twenty-six activities were represented. The absentees were D. G. McClellan, Architectural Society; F. L. Butterworth, Architectural Engineering Society; H. B. Gardner, Class of 1917; E. P. Brooks, Class of 1919; J. W. Barker, Electrical Engineering Society; W. B. Ross, Chemical Society; W. Harrington, Institute Committee; K. Dean, M. I. T. A. A.; D. McRea, Mining Engineering Society; E. M. Woodward, Musical Clubs; C. H. M. Roberts, Officers Club; H. P. Eddy, Jr., Tech Show, and F. B. Hastie, T. C. A. No reports were received from the Architectural Society, Architectural Engineering Society, Cosmopolitan Club, Electrical Engineering Society, Chemical Society, Officers Club, Tech Show, Rifle Club or the T. C. A.

Mr. Lawrance was elected permanent secretary. The most important transaction was a recommendation made to the Institute Committee to impose hereafter a fine of fifty cents on each activity whose treasurer is delinquent.

WRESTLING TEAM

All interested in the competition for assistant manager of the wrestling team are asked to see Manager Stebbins at the Gym between 5.00 and 5.30 on afternoons of this week.

TECHNOLOGY ORCHESTRA

The next meeting of the Technology orchestra will be held in the Union next Wednesday at 4.00 o'clock. Mr. Howard, who has directed the Show music in past years, has promised to be on hand. In all probability he will coach the Show music this year although no definite arrangements have as yet been made.

the other was to be placed at the service of the student body. Up to this year a complete set has always been kept at the Cage where anyone could have access to it. Lately, however, students who have applied at the Cage for information regarding the whereabouts of men have probably been disappointed, because every day, during the busiest three hours, the list is being used at the superintendent's office for the re-addressing of mail.

To us this seems an improper use of these cards. It is quite possible for the superintendent's office to make out a list of addresses for its own use that will be a more efficient help in the re-addressing of mail; and if this is done, a great deal of information that is useless to the superintendent's office, but very necessary to the student body, will not be made unavailable for a great part of the day.

PATRONIZE
TECH
ADVERTISERS



EXPERIENCE is a good school, but that ain't any excuse for always stayin' in the same class. When you're done tryin' out the "pretty fair" smokes, try VELVET, the smoothest.

Velvet Joe

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, 33 STATE STREET

You Should Allow Enough Time

FOR THE MAKING OF THAT OVER-COAT BEFORE THE FOOTBALL GAME

For Your Benefit we want your early order—to give us leisure in the making—that the best results may be given

We venture to say that we have the **Largest Stock of Overcoatings** of any tailoring house in New England, of a wide variety of design, and most dependable quality

Prices \$25 to \$50

BURKE & CO., Inc., Tailors

1246 Mass. Ave. (Harvard Sq.) Cambridge

18 School St., Boston

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

THE AMERICAN

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.

1530 THE UNIVERSITY



Students' Clothes

J. C. LITTLEFIELD

High Class Tailor

12 BEACON STREET

Evening Clothes a Specialty

**KEEP
WARM**



BY WEARING THE
WORLD KNOWN

**Wright & Ditson
SWEATERS**

Made of the finest and most lustrous worsted obtainable, on machines which fashion them to the body, thus insuring their holding in shape indefinitely. **Reversible Collar, Regular Jacket, V-Neck and Collarless Styles.**

Catalogue mailed free

WRIGHT & DITSON
344 Washington St., Boston

**Bowling Headquarters
For Tech Bowling Leagues**

We solicit the patronage of Tech Students and Alumni. Alleys screened for private parties.

Two minutes' walk from all Institute Buildings. Come in and enjoy a few minutes of healthful recreation before meals and between classes.

TRINITY COURT BOWLING ALLEYS

E. B. THRASHER

Proprietor and Manager
Established 1898. Tel. B. B. 4030



THE CHOCOLATES
THAT ARE DIFFERENT

For Sale at the Union

Something New Continually

**ITALIAN
Restaurant**

TABLE d'HOTE
DINNER 5 to 8.30

A LA CARTE

STRICTLY ITALIAN CUISINE

Italian Wines

Music

BOYLSTON PLACE

Near Colonial Theatre

TYPEWRITERS --- ALL MAKES

Bought, sold, rented and repaired

SPECIAL RENTAL RATES TO
M. I. T. STUDENTS

Supplies for all machines

Agents for Blickensderfer Feather-weight Machines.

BLICK COMPANY

334 Boylston St., Boston, Mass.
Bryant & Stratton School Bldg.

CHEMICAL SOCIETY

(Continued from Page One)

labeled, is much easier to acquire than the power of having visions. I do not mean to confine my criticism of our inability to 'visionize' to chemists nor to men of any one school, but to us as a race. It is true, though, that if we could see our defects in this respect we in a school, making a business of training ourselves, ought to be best fitted to correct this defect.

"It is against fear, hesitancy, too cold logic that I want to warn you, because, as men with the best training available in this country, you are still likely to be least reckless with your visions.

"There is one more point to which I also want to briefly, but pointedly, refer. It relates to our national preparedness for defence. You are living in practically the only country not now involved in the most costly war in materials that this world has ever seen. You are part owners of an uninsured dwelling, with defective wiring in the garret, a wooden ash barrel alongside the furnace and a leaky gas main in the cellar. No sane American wants war—at least, war in America. Let us be so prepared that we may at will thoroughly defend ourselves, or may, after being prepared for adequate defence, give the keys of our cities and government to some armed applicant in order to insure the peace we want if we wish to. In pursuing the preparation for defence, we would be holding in our hands the question of choice, which is lost to us if we are negligent. There are prominent people who want peace at any price. This is the incomprehensible fact. I hope most Americans are going to prove much less supine."

At the close of the talk President Wilson rose to announce that the next meeting would be the "War Meeting" which was postponed from October 29 on account of the invitation received from the Engineers' Club of Boston to hear Professor Blucher. The date was set for Friday, December 3rd.

R. A. Miller, chairman of the trip committee, then announced that two trips to the Watertown Arsenal had been arranged for Friday, November 19th, and for a week later, November 26th. The party will start from Copley square at 1.15 o'clock. Any members of the Chemical Society who were not present and who desire to go on the trip should see Miller in the Union any afternoon between 1.00 and 2.00 o'clock.

ARCHITECTS SMOKER

(Continued from Page One)

Before refreshments were served President Brophy announced that the Harvard Architectural Society has challenged the society here to a football game to be played before Thanksgiving.

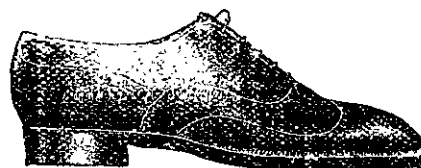
PATRONIZE

TECH

ADVERTISERS

**FRANK BROTHERS
Fifth Avenue Boot Shop**

New York



At The Tech Lower Office November 17
WITH OUR FALL LINE

**"WHEN IN NEED OF TRUST
COMPANY SERVICE CONSULT
THE OLD COLONY"**

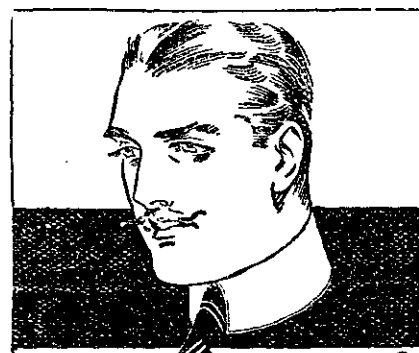
A SINGLE BANK WITH THREE OFFICES
IN DIFFERENT SECTIONS OF BOSTON

**Old Colony Trust
Company**

17 COURT STREET

52 TEMPLE PLACE

222 BOYLSTON STREET



an "GOTHIC"
**ARROW
COLLAR**

FRONT FITS CRAVAT KNOT
PERFECTLY. 2 for 25c

CLUETT, PEABODY & CO., INC., MAKERS

CARL A. ZAHN

Barbering Manicuring
Chiropody

Razors, Brushes, Perfumery
Haberdashery

THE PLAZA COPLEY PLAZA
New York Boston.

GREENBRIER

White Sulphur Springs, West Virginia

This is the place for Tech Boys to buy their Apparel, Furnishings and Room Accessories—the Big Store has the goods

Jordan Marsh Company

BETHLEHEM STEEL

has scared Wall Street, but it couldn't beat the market and the bottom fell out the other day

BUT

We are still selling CLOTHES at the same price---the lowest possible

S. H. KNOPF

Telephone Oxford 622 :: 125 Summer Street.



A selected smart style from Chamberlain's comprehensive display of proper hats for every occasion.

- Beaconsfields, \$3.00
- Royal Luxurys, \$4.00
- Revelations, \$2.00

Chamberlain

THREE STORES

637 Washington St., At Boylston
659 Washington St., Gaiety Theatre
311 Washington St. Opp. Old South Church

STONE & WEBSTER
Established 1889

OUR ORGANIZATIONS ARE PREPARED TO

- FINANCE public utility developments.
- BUY AND SELL securities of public utility corporations.
- DESIGN steam power stations, hydro-electric developments, transmission lines, city and interurban railways, gas plants, industrial plants and buildings.
- CONSTRUCT either from our own designs or from designs of other engineers or architects.
- REPORT on public utility properties, proposed extensions or new projects.
- MANAGE railway, light, power and gas companies.

Stone & Webster Securities Department
Stone & Webster Engineering Corporation
Stone & Webster Construction Company
Stone & Webster Expert Department
Stone & Webster Management Association

NEW YORK BOSTON CHICAGO

HARVARD-YALE GAME

The tickets for the Harvard-Yale game will be distributed this week, beginning this morning. All students who have applied for tickets may obtain them at the H. A. A. office in Cambridge any time before Friday evening at 6 o'clock. Mr. Moore, the treasurer of the association, stated that none of the applications had been refused. Those applying for single seats have been given seats in the cheering section. The Harvard management is desirous that the cheering be good, and those Technology students who receive single seats are invited to the mass meeting Wednesday night in the Harvard Union.

FACULTY NOTICE

Fourth Year—The first exercise in Theoretical Hydraulics for Course XIII will be held on Monday, November 22, in Room 47, Eng. A.

**We Make
A Neglige Shirt
TO MEASURE**

From your own selection of a variety of New Fall Shirts with French cuffs or separate. **\$3.50 up**

A White Bosom Shirt for Dress or Business. **\$2.00 up**

Well tailored and buttonholes hand made

A neckband that is exactly right, sleeves just the right length, durable, exclusive materials, and the final touch added in our own laundry—these are the distinguishing marks of comfort, and all these you can get in our Custom Made Shirts at the above prices.

C. F. Hovey Company

(Men's Shop Directly Inside the Summer Street Door)

McMORROW

College Shoes for College Men

238 WASHINGTON STREET, BOSTON, MASS.

OPPOSITE THOMPSON'S SPA

ATTENTION, TECH MEN!

We offer our best photographs to members of all classes at M. I. T. at Senior Class rates.

Make your appointments early and have your pictures for the holidays.

Notman Photographic Co.

Phone Haymarket 1861

3 PARK STREET

FRATERNITY GROUPS AT LOWEST PRICES

CROSS COUNTRY RUN (Continued from Page One)

second with 69 and Technology third with 98 points. The scores of the other entries were: Brown 101, M. A. C. 125, Worcester Polytechnic 130, Williams 153, and Bates 154. Captain Brown ran a heady race throughout and had little difficulty in winning the run. His time was 28m. 48.1-5s.

Maine was the favorite before the run, although Dartmouth and Technology were admittedly dangerous contenders. The University team was the same which won last year's meet with the exception of Wunderlich, who, however, finished seventh in this year's run.

Although a stiff breeze was blowing, the day was ideal for a race and there were hundreds of spectators along the course and at the finish.

At the start, C. T. Guething of Technology took the lead and held it for nearly a mile. Brown started slowly and did not come near the front until the end of the first mile. After two miles had been covered, Lane of Bates was leading, followed by Richards of M. A. C., Sherburne of Dartmouth, Bell of Maine, Brown of M. I. T., Wunderlich of Maine, and Tucker of Dartmouth in order. The entire squad was well bunched at this stage and there were few trailers. Brown was taking it easy and evidently saving himself for the finish.

In the third mile the field began to string out, Lane was still leading, with Bell and Brown close behind. Bell took a spurt at the golf links and went into the lead but was soon afterwards passed by Brown. At this time Tucker of Dartmouth was run-

ning fourth while Aiken, the M. A. C. star had pushed into fifth place. The next five men were Richards of M. A. C., Wunderlich of Maine, Sherburne of Dartmouth and Dempsey and Preti of Maine. The rest of the line was well strung out.

Brown trailed Bell for the first furlong of the last mile and then started his fight for the lead. There was a neck and neck contest for about a hundred yards but Brown was too strong for his opponent and gradually opened up a lead which he maintained to the end. Bell who had run himself out was passed by Aiken about six hundred yards from the finish and was forced to be content with third place. Tucker and Lane took fourth and fifth with about twenty yards between them. Wunderlich, Dempsey and Preti, all of Maine were the next to score and it looked like a sure thing for the Pine Tree boys, but Dartmouth gave them a scare by finishing all her scorers before the fifth Maine man hove in sight. Hysom of Maine, however, finished thirty-second, which gave his team enough of a margin.

The team scores are as follows:

	Team	Scores	Total
Maine	..... 3	7 8 9	32 59
Dartmouth	... 4	12 14 17	21 68
Technology	.. 1	20 22 24	31 98
Brown	.....11	13 18 23	36 101
M. A. C.	..... 2	6 27 40	50 125
W. P. I.	.....10	16 29 30	45 130
Williams	.....15	19 34 39	46 153
Bates	..... 5	25 33 44	47 154

The Technology team finished as follows: 1, R. G. Brown; 20, D. H. Parker; 22, C. T. Guething; 24, M. G. Graff; 31, H. P. Gray.

The times of the first ten men:

Continued on Page Six)

L. P. HOLLANDER & CO.

214 BOYLSTON STREET
BOSTON

Makers of Men's and Young Men's
Fine Ready-to-Wear Clothing
AT MODERATE PRICES

**EVERY SUIT IS MADE IN OUR OWN SHOPS
FROM THE BEST FOREIGN WOOLENS**



Good Sport and Good Smoke Go Together

There's more crisp, brisk, youthful vigor in an ounce of "Bull" Durham than in a pound of any other tobacco ever rolled up into a cigarette. It's the co-partner of the go-ahead spirit—the delight of the fresh, unjaded taste that goes with enthusiasm and energy. This grand old tobacco—the favorite of three generations—is today the liveliest smoke in the whole world.

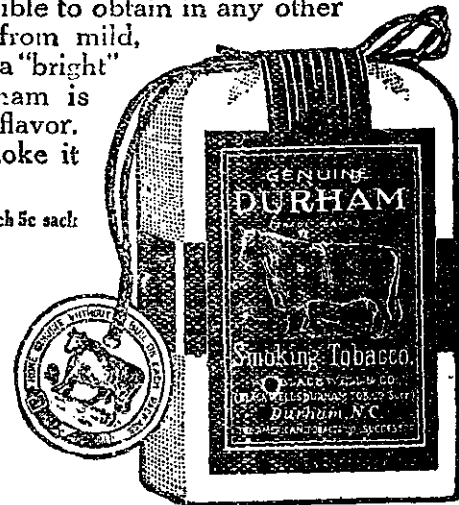
GENUINE "BULL" DURHAM SMOKING TOBACCO

Within the last two years the "roll-your-own" idea has spread amazingly. Thousands of men have learned that their own hand-rolled "Bull" Durham cigarettes have a freshness and fragrance impossible to obtain in any other way. Made exclusively from mild, ripe Virginia-North Carolina "bright" tobacco leaf, "Bull" Durham is unique in its mellow-sweet flavor. Try it once and you'll smoke it always.

Ask for FREE package of "papers" with each 5c sack.

FREE An Illustrated Booklet, showing correct way to "Roll Your Own" Cigarettes, and a package of cigarette papers, will both be mailed, free, to any address in U. S. on request. Address "Bull" Durham, Durham, N. C. Room 1400.

THE AMERICAN TOBACCO COMPANY





Moore's non-leak

READY TO WRITE

Carry it everywhere, at the lectures, in the library, on the train—writes without coaxing and never leaks.

The pen that is clean to use, clean to carry and always ready to write.

Made in special sizes and styles for students—ask your dealer to show you a Moore's Non-Leakable today.



American Fountain Pen Co.
Adams, Cushing & Foster, Inc.
168 Devonshire Street, Boston, Mass.

Patronize Our Advertisers

Tech Barber Shop
 29 HUNTINGTON AVE.
 UP ONE FLIGHT
 Tailoring Done Next Door.

Room Decorations
 HEAVY FELT
Banners-Pennants
 Gothic or Old English Lettering
A. D. MACLACHLAN

CROSS COUNTRY RUN
 (Continued from Page Five)

R. G. Brown (28.48 1-5), Aiken, M. A. C. (29.17), Bell, Maine (29.25 1-5), Tucker, Dartmouth (29.31), Lane, Bates (29.37), Richards, M. A. C. (29.45), Wunderlich, Maine (29.51), Dempsey, Maine (29.53), Preti, Maine (29.53 1-5), Francis, W. P. I. (29.53 2-5).

DECEMBER MONTHLY
 (Continued from Page One)

You cannot afford to miss seeing those photographs of field day that appear in the Monthly tomorrow. The article on the work of the Bureau of Standards should be read by every Technology man, as it points out those researches that are connected with general engineering. Do not miss the jokes, the current events at Technology,—incidents of student and faculty life will be brought out by the cartoons of van Zelm. The December Monthly is worth buying for these cartoons alone.

Students' Cast-off Clothing
 and other personal effects bought by
KEEZER
 369 Columbus Avenue
 Corner of Yarmouth Street
Highest Prices Paid for Same
 Phone, Write or Call
 Open Evenings to 9 o'clock
 B. B. 6843.

Tech Union
Dining Rooms
 42 Trinity Place

SERVICE:

A la Carte
Table d'Hotel
Cafeteria

Collins & Fairbanks Co.
Young Men's
Hats, Coats, Caps, Gloves
383 Washington St., Boston

MEN WHO MADE GLEE CLUB ANNOUNCED

Those Chosen Will Compose Club Until Mid-Year.

The Glee Club management has finally decided on the men who will compose the club until the mid-year trip. The leader wishes it understood by the successful candidates that the list is subject to modification at any time. He also wishes to thank the unsuccessful men for their co-operation to date. Deposits paid by these latter will be refunded on application to the Treasurer, E. M. Woodward, 234 Newbury street. The list of successful candidates is as follows: First Tenors—M. C. Brock, E. P. Collins, T. L. Goodwin, J. C. Howe, J. W. O'Brien, L. A. Swan and E. M. Woodward; second tenors—G. Y. Cannon, C. F. Cellarius, E. S. Coldwell, P. B. Craighead, E. A. Ek-dahl, T. Z. Haviland, E. O. Holmes, C. S. Parsons, H. E. Shabacher, F. A. Travers; first basses—J. L. Clark, Herbert Mendelsohn, I. B. MacDaniel, W. L. Ogden, J. R. Poteat, E. H. Raymond, M. M. Whittaker, S. K. Wiley, L. F. van Zelm; second basses—G. W. Blakeley, P. W. Carr, D. W. Cambell, R. P. Kennard, R. P. Martin, M. F. Parker and R. H. Ross.

MENORAH SOCIETY

At a meeting of the Menorah Society held last Friday afternoon, two speakers delivered remarks on the literature, history and present well-being of the Jewish race. Professor H. L. Seaver spoke on Hebrew literature, especially the Old Testament, as compared with masterpieces in other languages. The second speaker was Mr. Henry Hurwitz, Chancellor of the International Menorah Association, who treated of Jewish interests in the present era.

6 PHOTOS \$1.50 with this Coupon

of yourself, finished in Chiaroscuro, size 6x10. Regular price \$6 per dozen. Also made from new or old photos

"The Photographer in Town"
 New York, Paris, Boston, Phila.
F. Brunel

159A TREMONT STREET

CUT THIS COUPON NOW

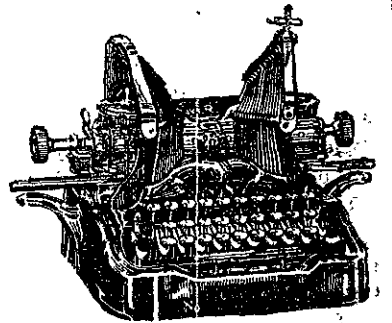
Good on if May 15 only (T)

TECH UNION BARBER SHOP
 Located at the
Hotel Westminster
 Handy to the institute. Up-to-date, fashionable hair cutting by skillful barbers. The best hygienic and most perfectly ventilated shop in the Back Bay.
THE TECH UNION BARBER SHOP

HERRICK COPLEY SQUARE
 Choice Seats for all Theatres
PHONE B. B. 2328
 Connecting Five Telephones

A New Model Typewriter!

The **No. 9**
OLIVER
 The Standard Visible Writer



BUY IT NOW!

Yes, the crowning typewriter triumph is here
 It is just out—and comes years before experts expected it

For makers have striven a life-time to attain this ideal machine. And Oliver has won again, as we scored when we gave the world its first visible writing.

There is truly no other typewriter on earth like this new Oliver "9." Think of touch so light that the tread of a kitten will run the keys!

CAUTION!

The new-day advances that come alone on this machine are all controlled by Oliver. Even our own previous models—famous in their day—never had the Optional Duplex Shift.

It puts the whole control of 84 letters and characters in the little fingers of the right and left hands. And it lets you write them all with only 28 keys, the least to operate of any standard typewriter made.

Thus writers of all other machines can immediately run the Oliver Number "9" with more speed and greater ease.

WARNING!

This brilliant new Oliver comes at the old-time price. It costs no more than lesser makes—now out-of-date when compared with this discovery.

For while the Oliver's splendid new features are costly—we have equalized the added expense to us by simplifying construction.

Resolve right now to see this great achievement before you spend a dollar for any typewriter. If you are using some other make you will want to see how much more this one does.

If you are using an Oliver it naturally follows that you want the finest model.

17 CENTS A DAY Remember this brand-new Oliver "9" is the greatest value ever given in a typewriter. It has all our previous special inventions—visible writing, automatic spacer, 6½-ounce touch—plus the Optional Duplex Shift, Selective Color Attachment and all these other new-day features.

Yet we have decided to sell it to everyone everywhere on our famous payment plan—17 cents a day! Now every user can easily afford to have the world's crack visible writer, with the famous PRINTYPE, that writes like print, included FREE if desired.

TODAY—Write for Full Details and be among the first to know about this marvel of writing machines. See why typists, employers, and individuals everywhere are flocking to the Oliver. Just mail a postal at once. No obligation. It's a pleasure for us to tell you about it.

The Oliver Typewriter Co.
 146 Congress Street, Boston, Mass.