TECH BOILER PLANT
NEARING COMPLETION

Will Be In Commission In A Month—Many Other New Developments.

The steady growth of the tall, cream-colored chimney at the north-
ern end of the new site of the Massachusetts Institute of Technology
marks the site of the new boiler house. A month hence will see the
boiler house in commission. Steam will then be available for dry-
ing the plastering that is now being applied to the walls of the offices,
study rooms and laboratories.

The new plant will, at the begin-
ing, develop about 2000 horsepower and is modeled along the lines of a
modern power plant. It is, however, unusually condensed, being ten feet
narrower than stations of similar capacity. This narrowness is neces-
sary for the 1918 Cheer Leader will be on hand to show
Huntington Hall. Candidates for
ORS, in the Union at 1.30 o'clock
Thursday noon.

Trials for the Du Pont Cups will take place today. Coach Kanaly
wishes to announce that after today no further trials will be held until
next spring.

FIELD DAY TEAMS
PICKED TENTATIVELY

Men Taking Part In Annual
Lower Class Contest
Selected.

The personnel of the teams which will participate in the Field Day
events Friday has been practically
decided upon. Following are the lists of the men comprising the teams as
given out by the respective
managers:

1918 CLASS MEETING
Over Two Hundred Out—Cheer
Leaders Elected.

Yesterday afternoon about two
hundred freshmen held a mass meet-
ing in Huntington Hall to rehearse
the cheers for Field Day. W. Har-
rington, '17, and E. P. Brooks, '17,
temporary officers of 1918, and Ste-
vens, the Junior cheer leader, con-
ducted the meeting. Volunteers were
called upon to assist in the leading
of the group, the Junior cheer leader, con-
ducted the meeting. Volunteers were
called upon to assist in the leading
of the group, while D. N.

THE FIELD DAY CUP.

BARKER WINS SABRE

Last Friday in the Armory a sabre
was presented to Major Barker for
having won last year's prize drill.
The sabre was given by Jacob Ready
Hanna, the maker of the uniforms; this presentation is to be made an
annual event. Major J. A. Tobey,
now the assistant in Military Science,
was also given a saber for having
won the prize drill two years ago.

FIELD DAY BANQUET

The annual Field Day dinner will be
held next Saturday evening in the
Union. All contestants and officials
who participate in the Field Day
program are invited. Contrary to
the usual custom at these dinners,
no charge will be made.

ENTHUSIASM REIGNS
AT MASS MEETING

Songs Perfected For Tech Night
—Technique Band Makes
Appearance.

Last evening, in the Union, at what
was probably the liveliest mass
meeting the Institute has ever had,
plans were announced for Field Day
and Tech Night, and thorough prac-
tice was held in all the Technology
(Continued on Page Five)

CO-OPERATIVE SOCIETY
MERGER WITH HARVARD
To Join Technology And Harvard
Societies—Dividends For
M. I. T. Students.

The Technology Co-operative Soci-
ety will merge with the Harvard
Co-operative Society next September
when the Institute moves to its new
buildings in Cambridge. The Har-
vard store does a large business in
Cambridge, and will establish a
branch store in the vicinity of the
Technology buildings.

Technology students may become
members of the Harvard Society, re-
cieving a dividend on their purchases
according to whatever rate the Tech-
nology branch of the business has
earned. The Harvard Co-operative
Society itself has just declared a
dividend of seven per cent and thus
all students who made purchases
(Continued on Page Six)

TECH NIGHT TICKETS

The exchange tickets issued by the
Tech Night Committee will be worth-
less unless exchanged by two o'clock
today in Rogers Corridor at the win-
dow outside the door of the General
Library.

Two regular theatre tickets for
seats "orchestra left, I, 5, 6," were
given out by mistake Monday and
will not be honored at theatre. The
holder of exchange seats may return
them to the Committee this noon
with no questions asked, and can
then avoid an unpleasant awakening
in the door of the Conservatory.

A number of seats have been left
by purchasers to be sold at the win-
dow. Of this number there are a
few seats in rows H, J and I of the
orchestra. The Committee is acting
only as an agent in the sale of these
seats, having closed its regular seat
sale last Saturday.

CALENDAR

Wednesday, November 3, 1915.
1.00—Exchange of tickets for
WATCH YOUR STEP. Window
outside General Library in Rogers.
1.00—News Meeting. Upper Office.
2.00—EXCHANGE TICKETS FOR
WATCH YOUR STEP WORTHLESS
AFTER THIS TIME.
5.00—Technology Orchestra. Union.
5.00—Freshman Publicity Competi-
tion for Tech Show starts. Show
Office.

Thursday, November 4, 1915.
1.30—Sophomore Class Meeting.
Huntington Hall.
1.30—T. C. A. Talk. Union.
7.30—E. E. Society Meeting. Union.

PAY YOUR BLANKET TAX BEFORE FIELD DAY----ROGERS, 1 TO 2
THE TECH
Entered as second-class matter, Sept. 13, 1881, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.
Published semi-weekly during the academic year by students of the Massachusetts Institute of Technology.
Office 47 Trinity Place.
Phone—Back Bay 1277 or 1278.
Night Phone—Back Bay 1277.
MANAGING BOARD.
H. P. Clauson, '16—General Manager
E. F. Hewitt, '16—Editor-in-Chief
H. L. Long, '16—Managing Editor
R. K. Dodge, '17—Advertising Manager
P. W. Dodge, '17—Circulation Manager
R. J. Cook, '17—Treasurer

NEWS BOARD.
D. E. Bell, '17—Sporting Editor
A. F. Sturms, '17—Institute Editor
A. B. Brooks, '17—Societies Editor

ASSOCIATE EDITORS.
A. P. Sullivan, '17—R. B. MacDonald, '17
W. J. Dumon, '17—H. A. Thompson, '17

NEWS STAFF.
M. A. A. Reis, '18—A. N. Pray, '18

OFFICE HOURS.
(Daily except Saturday)
General Manager 5:00 to 6:00 P. M.
Advertising Manager 3:00 to 5:00 P. M.
Circulation Manager 8:00 to 9:00 P. M.

The spirit with which the undergraduate entered into the rehearsals of Tech songs last night bodes well for the success of Tech Night. Apparently all that now remains to make of Tech Night a permanent and respected institution is the strict compliance with the requests of the Colonial theatre. It must be remembered that the theatre was obtained only after the committee had assured the management that there would be absolutely no confetti nor streamers thrown, and to disregard this stipulation would not only place the committee in a most uncomfortable position but it would probably mean the permanent abandonment of the present form of Tech Night.

KOMMER'S DINNER
All Departments Explained At Annual Affair.

The Kommer's Dinner, the annual Tech Show banquet, will be held in the Union Thursday evening, November 11. The management holds this dinner to promote the interest of the students in the Show and the opportunity is taken to explain the working of all the departments. An interesting entertainment has been arranged to make the affair a pleasing one.

Tickets may be purchased from any member of the management for fifty cents.

WATCH YOUR STEP
FRIDAY NIGHT
COLONIAL THEATRE

COMMUNICATION

Editor, The Tech:
I wish to thank all the candidates who did not make the 1915 list of war team, for their time and efforts. Their presence at practice was of the greatest value, for without then a good team could not possibly have been developed.

JAMES C. RICKETTS, '18

BLANKET TAX SHOWS

To Obtain Full Benefits Tax Must Be Paid Before
Field Day.

Payments on blanket tax have experienced a big boom in the last few days and it is expected that by Field Day a satisfactory number will be secured. To date over 500 men have paid and many more have promised to do so before Field Day. The tax may be paid in Rogers from 1:00 to 2:00 o'clock today or tomorrow, or to any of the following collectors:


YALE GAME TICKETS

Applications Are Due Before Thursday Evening.

Students in courses 1, II, III, VI and XI who wish to apply for tickets for the Harvard-Yale game, must file their applications before 5 o'clock Thursday evening, at the Harvard Athletic Association office in Cambridge. Students will receive from Registrar Humphreys a card signifying their course, which must be presented when the signature card is filed. After the signature card is filed the application will be received.

Not more than two tickets may be applied for, and the one seat application receives the first attention, the seats being in the Harvard cheering section. A check or cash, $2 for each seat, must be enclosed in the application.

Every student receiving a ticket is held personally liable for the seats, and must promise to occupy one of them himself. Any man whose ticket is found in the hands of a spectator will be "black listed" and will be excluded from the right of applying for seats again. Yale graduates in the Institute should apply for seats through their own management.

"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

McMORROW
College Shoes for College Men
238 WASHINGTON STREET, BOSTON, MASS.

OPPOSITE THOMPSON'S SPA

"Three Photos $1.50"

6 Photos $1.50

"The Photographer"

159A Tremont Street, Boston

Students' Clothes

J. C. LITTLEFIELD

High Class Tailor

12 Beacon Street

Evening Clothes a Specialty
TECH BOILER PLANT

Cancelled because the building lies in the ninety-foot strip between Vassar street and the railway. The latter affords economical delivery of coal in large quantities so that with mechanical stokers and other appliances the coal is not handled by men at any stage of its use.

The boilers lie transversely to the street and railway, being placed in order to make the addition of other boilers easier as the future needs of the Institute may demand. There will be 250 horsepower in new boilers and 400 horsepower in those removed from Trinity place. The new boilers are of the Babcock & Wilcox make, working under forced draught and utilizing Riley stokers.

One special feature is that the boilers will be equipped for heavy overloading. This should not be taken in the sense that they will be made to work down.

There are several features about this plant that make it different from the ordinary boiler room. It will, in itself, be a laboratory for the use of students. It will care for lighting, heating and power, and will be built upon the lines of a big central station.

The laboratory use is likely to demand a high peak load, which the establishment must be able to care for, but, at the same time, the load factor is comparatively low. The location of the plant, besides affording the convenience and economy of direct coal delivery, is sufficiently removed from the educational and student portions of the new Technological buildings.

The boilers are of wrought steel, water tube type, designed for 175 pounds working pressure and superheating the steam 100°F., an important economy in the use of the steam turbine. The stack measures ten feet in bore and runs back from the Charles river basin along the western edge of the great court. It will be about a quarter of a mile in length and in rainy weather will collect the rainfall of the area and turn it in for condenser water.

(Continued on Page Five)

MINING SOCIETY

Professor Richards To Speak At Opening Meeting.

The Mining Engineering Society has been exceptionally fortunate in securing Professor R. H. Richards as the speaker for the opening meeting of the year which is to be held next Monday evening at 7.30 o'clock in the Union. Professor Richards retired from active work in June, 1914, after fifty years connection with the Institute. He was a member of the first graduating class, and following this was an assistant from 1868 to 1871. In the latter year he was made Professor of Mineralogy and placed in charge of the Department of Mining Engineering at its inception.

 Besides this work in the Mining Department Professor Richards was Secretary of the Institute for a number of years. Professor Richards has contributed over one hundred volumes to the literature of the Mining profession most of them being technical works on assaying. Denying to the fact that he is not in Boston all the time this is one of the few opportunities for students in the Mining Courses to hear Professor Richards.

There will be a meeting of the Executive Committee of the Society today at 5 o'clock in 26 Rogers where time a program for the year will be arranged.

M. I. T. A. A.

The M. I. T. A. A. met in 8 Engineering yesterday afternoon at 5:00 o'clock, and elected the following officers for the ensuing year: President, C. W. Loumen; Vice-president, J. W. Doon; Secretary, P. E. Holbert. The Advisory Council consists of C. W. Loumen, W. F. Dean and N. E. Trottellote.

ORCHESTRA

Meeting Today—Mr. Howard To Be Present.

The second meeting of non interest in founding a permanent Tech- nology Orchestra will be held this afternoon at 5 o'clock in the Union. Such a large number of men have shown their intention of coming out that Mr. William Howard has been assured to offer suggestions concerning the work of the orchestra.

The question of rehearsals and methods of organization will be discussed.

TOMORROW

"AT THE TECH OFFICE"

My representative, Mr. G. H. Kimball, will display our Full Line of Custom and Ready-to-Wear Clothing.

Your inspection is earnestly invited.

S. H. KNOPF
IMPORTER - TAILOR

125 Summer Street, Boston, Mass.

Tuxedo

The Perfect Tobacco for Pipe and Cigarette

Tuxedo is the original Burley smoking tobacco, that made pipe-smoking possible to many men, and the original "Tuxedo Process" has never been duplicated. It stands today as the most effective treatment for making the natural leaf deliciously mild and delightfully fragrant and for removing every trace of "bite."

"Tux" is going ahead of them all with a speed that makes it look like a race between a 60-horse-power motor-car and a steam roller. It's the fastest-growing brand of smoking tobacco in the world.

Take the trail of any real wise smoker with a pipe between his teeth and snatch a mellow whiff of fragrant "Tux."

Then you'll right away hunt up the nearest tobacco shop and gladly intern a dime in exchange for a green tin of pure smoke-delight.

"Tux" is a mmmmmm... isn't that lovely!!

You can buy Tuxedo everywhere.

Convenient glassine wrapped, moisture-proof pouch.

5c Famous green tin with gold lettering, curved to fit pocket.

10c In Tin Humidors, 40c and 60c In Glass Humidors, 50c and 50c

THE AMERICAN TOBACCO COMPANY
Apply at once as the general manager or treasurer, at the SECAR STORE. Good for one month only.

Originators of the Class Pipes

1918 Relay Team.
S. S. Kwan
K. L. Ford
R. W. VanBlak
E. A. Mead
M. M. Road
O. C. Lorex
D. W. McArthur
J. A. Avery
R. A. Merrill
C. L. Juslheim
D. M. McFarland
W. R. Ruseret
Collier
Fisher

1919 Relay Team.
S. K. Scrapton
C. B. Idey
W. M. Murphy
R. L. Root
R. W. Scott
L. J. Goddefrin
E. H. Bryant
A. E. Wright
E. Stabenbush
W. Flahnley
W. B. Clark
A. Jackson
Substitutes
D. Winter,
B. L. Gilmore

1918 Tug-off-War.
T. Pichler
M. Untersuee
H. Wascott
W. Maynard
J. Biegel
O. Cammam, Captain
P. W. Beley
O. McLaughlin
H. Davis
J. Meader
H. Weymouth
D. H. Scherman
D. Döten
A. Müller
H. Breed
R. Petersen
L. Finnher Hofmann
H. Whiteount
G. Davis
B. Page
G. Irwin
P. C. Blender
C. Sullivan
R. S. Palmer
G. French
Substitutes
A. Parker
C. Chayney
Counter
L. Dalton

The Tech is in a position to offer you exceptional values in clothes and shoe trade. See the general manager or treasurer, at 5 o'clock any evening. Apply at once as our offer is good for one month only.

FRANK BROTHERS
Fifth Avenue Boot Shop

New York

You Should Allow Enough Time

You are making of that overcoat 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 Overcoats 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

1420 Mass. Ave. (Harvard Sq.) Cambridge

At the Tech Lower Office November 3

SCHRYVER'S SECAR STORE

44 School Street

Originators of the Class Pipe

Agents for B. B. B., G. W. B., COMOY and S. S. S.

London Made French Briar Pipes

10% Discount to Tech Students
songs. There were nearly four hundred present, the boys having the largest representation. William J. Farthing, President of the Senior class, opened the meeting with a short talk on the new policy for Tech Night. He said that the object will be to see the show, not to make one. Organized enthusiasm will be the slogan for the entire day on Friday.

The formation of the Field Day parade was outlined. The parade will start at 1:30 o'clock sharp, on Friday, from the front of Rogers Building. The Seniors will form on Rogers stairs, the Juniors on the grass by Rogers, the Sophomores on the grass by Walker, and the freshmen on the steps of Walker. The line of march will be around Copley square, out Newbury street to Massachusetts avenue, across the bridge, past the new Technology, and thence to the Field.

The electrical outfit is interesting since the engine room will serve both as a sub-station and as a central station. The initial equipment will include three turbines, directly connected to three generators of 540, 660 and 150 k. w. respectively, furnishing three-phase current at 2080 volts. There will also be one 159 k. w. turbo generator and two 159 k. w. motor generators furnishing direct current at 110 and 230 volts, and two 25 k. w. exciters, one steam and the other turbine driven. The current at the various voltages will be conducted to the buildings and laboratories by lead-covered cables running in special conduits. The steam turbine itself is to be located in the long building near and parallel to Massachusetts avenue. High pressure steam coming through the subway will be distributed to two mains below the ceiling of the first floor. There will be a superheater here connected with the machines at which tests are to be made. The condensers of the various engines in this laboratory are in the basement and take cooling water from one of the large hydraulic canals, passing the warmed water into a hot water return. In the basement there will be apparatus for determining the flow of superheated steam through turbines and turbine nozzles.

On the first floor of this building will be located the steam engines. They will include a Curtis turbine of about 76 k. w. capacity, a 30 h. p. Corliss with a dynamometer attached to the flywheel, a 350 h. p. McKewan tandem compound, a compound engine and generator of the same make of 256 h. p. and a triple expansion Corliss. These engines will be ranged along the western wall of the building. On the opposite side of this laboratory there will be located a Brown engine driving a three-stage air compressor having a maximum pressure of 3265 pounds per square inch. In addition there will be two or three other compressors and a few small engines to illustrate additional types.

The chief feature of the meeting was the enthusiastic practice of Technology songs. Led by Cheer Leader, White, the Techniques readily assisted in increasing the general volume of sound. A very marked improvement in the singing of all the songs was attained, especially in "Take Me Back to Tech," a new song which was introduced by simplifying construction.

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.

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.

Yes, the crowning typewriter triumph is here. It is just out—and comes years before experts expected it. For makers have driven a life-time to attain this ideal machine. And Oliver has won again, as we saw when we gave the world its first visible writing.

There is truly no other typewriter on earth like this new Oliver "S." It is just out and you want to see how much more this makes. Just mail a postal at once. No obligation.

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.

17 CENTS A DAY

Remember this brand new Oliver "S" is the greatest value ever given in a typewriter. It has all our previous special inventions—visible writing, automatic spacer, 5/6 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 marvell 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.
Collins & Fairbanks Co.  
Young Men's Hats, Coats, Caps, Gloves  
383 Washington St., Boston

RIFLE CLUB

Last Trip Saturday — Indoor Work To Commence Soon.

The Rifle Club will hold its last outdoor shoot of the season this Saturday at Watertown. As usual, the party will be limited to thirty. A sign-up list, which will be replaced Thursday at six o'clock by a subsidiary list, has already been posted on the Union bulletin board.

Indoor shooting will commence as soon as a suitable range can be obtained. The club expects to allow its members to shoot several afternoons each week, and no restrictions will be placed upon the amount of ammunition used by each man. Special rates on ammunition enable the club to purchase large amounts at small cost.

A few score books are still left at the South Armoury, and members may obtain one at any time without cost by application to the armourer.

GLEEP CLUB PRACTICE

Coach To Be Present—First Cut Comes Monday.

On Thursday, the first coached rehearsal of the year for the Gleek Club will be held at the regular rehearsal hour of five o'clock in the Union. It is important that every man attend as the first concert is but two weeks away. The first cut will be made next Monday when the list of men to be retained will be published in the Tech. This schedule will contain some changes from the present tentative list.

WATCH YOUR STEP

FRIDAY NIGHT

COLONIAL THEATRE

Browning, King & Co. Inc.
Clothing, Haberdashery and Hats

DRESS CLOTHES

Dress Suits 
Tuxedo Suits 
$28, $35, $45

SPECIAL FOR THIS WEEK

Dress Coat and Trousers with White Pique Vest 
$25.00

The very latest model

Tech Union Dining Rooms
42 Trinity, Place

SERVICE:
A la Carte
Table d'Hote
Cafeteria

Tech Union Barber Shop
22 Huntington Ave.

UP ONE FLIGHT
Tailoring Done Next Door.

Students' Coat-off Clothing and other personal effects bought by KEEZER
369 Columbus Avenue
Corner of Yarnouth Street
Highest Prices Paid for Same

DON'T FORGET THE ADDRESS
We make a special effort to win the esteem of Tech men.

Copley Square Pharmacy
E. G. Bosson, Prop.
Huntington Ave., Boston
ROOMS TO LET

Pleasant furnished rooms for students at 212 Bay State road. Two large double rooms at $2.50 per person per week, and one single room at $3.00 per week.

High-Grade Anthracite Coal For Domestic Uses

Our Crozer-Poconohills Blumineus Supplied to the Institute

Burton-Thurber Coal Co.
50 Congress St., Boston

Need a good reliable fountain pen? The Tech has a limited number of Moore's Non-Leakable pens to sell. Call at The Tech office at 5 in the evening and learn of our mutual benefit scheme of buying suits, shoes and fountain pens.

BAY STATE Liquid Paints Enamels, Stains and Varnishes

Hardware and Garden Tools

Wadsworth Howland & Co. Inc.
255 Federal Street
130-141 Federal Street
84 Washington Street

CO-OPERATIVE SOCIETY
(Continued from Page One)

during the year 1914-1915 at the Harvard store will receive in cash seven per cent of the money they paid. As a rule the dividend is about nine per cent, but the war affected the business of the store this past year. In the Technology branch of the store will be found all the commodities with which there is a general and students may make purchases at the main store in Harvard Square, being credited with the dividend. Among the departments of the store are the men's furnishings, books, stationery, tailoring, including contract pressing and laundring, and furniture departments. A card gives the members a discount in certain of the Boston stores as in the case with the Institute Society. Credit accounts may be made, bills being sent out every month. The Technology members of the Society will be representing on the Board of Directors.

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

THE TECH UNION BARBER SHOP