

## BOILERS AT M. I. T. NEED SIXTY TONS OF COAL PER DAY

Staff of Fifteen Required To Operate Plant Furnishing Heat and Light

**COSTS \$302,000 PER YEAR**

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Only fifteen men are necessary to keep the entire system in operation. Four of these are firemen who work in three shifts with an extra who gives each one a day off every week and acts as repair man on the other days. Each year the Mechanical Engineering Department gives the boiler room an efficiency rating and it has been seventy-nine percent for the past few years, a very creditable rating for a coal burning unit. Efficiencies as high as eighty-two percent are obtainable with oil and coal dust types of boilers, but seventy-nine is considered exceptionally good for the type in use. Even the ashes are taken care of to advantage, being disposed of at the price of fifty cents a yard where in earlier years it was necessary to pay for their cartage.

Steam from the boilers is used for two different things, heating, and generating electricity for lighting and experimental purposes. It is distributed for heating under 175 and two pounds pressure in eight and twenty inch mains respectively, which run directly under the street to the superintendent's office in the basement of building 10 where they diverge and go to their separate destinations. Walker Memorial, the Dormitories and the President's House are supplied by the high pressure line which can be noted by observing the melted strip running across the grounds on a snowy day. The larger and lower pressure line is supplied by waste steam from the turbines of the electrical generators, and is used to heat the main buildings. A third pressure is produced for the Mining and Metallurgy Department for experimental use at fifty pounds this is produced by lowering the high pressure to the required one.

### D. C. and A. C. Generated

The second and the greatest use of live steam is the generating of electrical power. Both alternating and direct current are made for lighting and experimental purposes. Four Westinghouse Generators driven by steam make the alternating current which lights the Institute and serves the electrical laboratories. It is transmitted at 23,000 volts and stepped down to 115 and 230 volts in five transformer rooms at various points about the Institute. The direct current is supplied by two D. C. generators driven by A. C. motors entirely for academic use.

Forty cents per thousand pounds is the average cost for the production of steam; of this coal is twenty-four, water two, labor ten cents and the rest for supplies and repairs. Calculations for the total overall cost for one year amount to \$137,000 with the major expenditures being 12,000 tons of coal costing \$80,000 and salaries at \$30,000. Of the total investment of \$302,000 the distributing system cost just half and the remainder is in buildings and machinery. The amount of steam generated in a year is stupendous being 200,000,000 pounds, while three million K. W. H. of electric power is made during the course of twelve months.

### WALKER CLUB ELECTS SIX ACTIVE MEMBERS

Announcement has been made by the Walker Club of the election of Dr. Karl T. Compton, President of the Institute, to honorary membership. The following men in the Junior Class have been elected as active members: John M. Kimble, Joseph C. Noyes, Thomas B. Rhines, Robert B. Semple, and William E. Ward. Initiations will be held on Wednesday, February 25, in Rogers Building.

## HINDS LAUNDRY

Reg. 6187

Special Student Rates and Service



### Voo Doo Announces Winners of Raffle

Announcement of the winning number in the raffle conducted in its last issue was made by Voo Doo yesterday. The number is 561. The man whose copy bears this number should bring it to the Voo Doo office, on the third floor of Walker Memorial before 5 o'clock, next Wednesday.

If the above winner does not appear on time, then the first alternate will have the evening at The Mayfair. The alternates are 1028, 938 and 1312.

### Board Elections Announced By The Tech At Banquet

President Compton and Doctor Stratton Attend Annual Social Affair

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Barker, Business Manager-elect, of Norwich, N. Y., prepared at the Norwich High School, being graduated in 1926. He attended Colgate University for one year where he was active in football and the college yearbook. He entered the Institute in 1928 in Course XV-2 as a member of the Class of 1932. He was a member of the freshman and Sophomore Field Day football teams and of the varsity boxing team for the past two years. He served on the Advertising Staff of THE TECH and last year was elected Advertising Manager. He is a member of Stylus, Beaver Key Society, Prom Committee, and Lambda Chi Alpha fraternity.

In addition to the Managing Board, the Combined Board of Volume LI will be composed of the following newly elected Junior Board members: Paul E. Davis, Jr. '33, News Editor; Frederick W. Wehmiller '33, Sports Editor; Beaumart H. Whitton '33, Features Editor; Dayton H. Clewell '33, Make-up Editor; John G. Hayes '33, Advertising Manager; David B. Smith '33, Business Service Manager; and Roland W. Fortier '33, Circulation Manager.

### TRACK CANDIDATES TASTE COMPETITION

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In the high jump Benjamin, Sullivan, Pierce and Coon are entered with the last named favored to place if he has a good day although all the others are good jumpers and are likely to come through.

Two Varsity relay teams are entered in the relay races, as well as a frosh relay team. The opponents will in all probability be Dartmouth. The first Varsity relay team will be picked from the following men: Jewett, Rosas, MacKay, Dworzecki, Mulliken, Hall and Lynch. From the times turned in during the tryouts last Saturday this should be one of the fastest teams to represent the Cardinal and Gray that has ever been put on the field.

The Varsity relay team "B" will be chosen from the following men: Wood, Lynch, Lappin, Hall, Dworzecki, and Mulliken. The frosh team will be picked from Bell, Schwarz, Wrigley, Barrett, Hall and Mann, which is also a potentially strong lineup.

### ELECT FIVE MEN TO HONORARY SOCIETY

Election of five men to Wood Garoo, honorary society of Voo Doo, was announced yesterday. The men are Richard K. Baltzer '33, John A. Osterman '32, James E. Harper Jr. '32, Francis S. Chamber, Jr. '32, and John F. Crowther '32.

### DEBATE "IS RELIGION NECESSARY?"

Clarence DARROW vs.

Rev. Dr. H. S. Johnson

John Jackson Walsh, Chairman

Next Wed. Eve., Jan. 28th  
Symphony Hall, Boston

Tickets: 75c to \$2.50, now at Box Office, T. C. A. and from Discussion Guild, 619, 100 Boylston St.  
Tel. Han. 0199

### The Lounger

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coach wants to get the co-eds out for his sport. He figures the wiles of feminine forms displayed in squash attire will inveigle the engineers from slide rules and manuals. opines the Lounger, who by the way is all for it. It is rumored that the recent statement of a fashion expert that "women are getting hipper" will cause them to flock to the squash courts to reduce the, er, hips.

The Lounger hears that the Coast Artillery cadets are to get an extra uniform, all white and gold, for use in the southern climate. Gosh, how are the other units going to compete with an attraction like that. The Lounger bets that the sophs will storm the Artillery office. Just fancy how the sweet young Wellesley one will quiver at the sight of a gold encrusted snowy uniform!

### Walton Lunch Co.

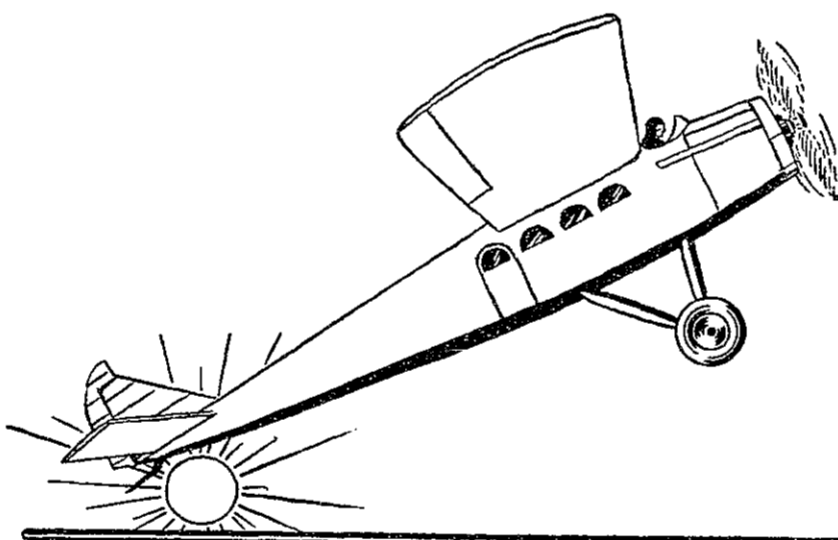
420 Tremont Street  
529 Washington Street  
50 Haymarket Square  
6 Pearl Street  
242 Tremont Street  
1083 Washington Street  
44 Scollay Square  
332 Massachusetts Avenue  
19 School Street  
437 Boylston Street  
1080 Boylston Street  
34 Bromfield Street  
640 Commonwealth Avenue  
204 Dartmouth Street  
105 Causeway St.

Allston  
1215 Commonwealth Avenue  
Cambridge  
78 Massachusetts Avenue

INVITES YOU TO INSPECT THE NEWEST DEVELOPMENTS IN CLOTHES, HATS, HABERDASHERY, SHOES FOR COLLEGE WEAR. NO OBLIGATION ON YOUR PART.

AT HOTEL LENOX  
Friday and Saturday  
January 23 and 24  
BOB GRAY, Representative

HERE



?

Which is bigger—the airplane's landing wheel or the setting sun? Guess first, then check your guess with a measure.

**YOUR EYES MAY FOOL YOU BUT YOUR TASTE tells the Truth!**

MILDER... AND BETTER TASTE



They Satisfy