

THE TECH

VOL. XXXI. NO. 120

BOSTON, MASS., MONDAY, MARCH 11, 1912

PRICE TWO CENTS

SHOW DEPARTMENTS MAKE FINE PROGRESS

Rehearsals Every Day This Week—Principals and Chorus the Best Ever.

Rapid progress is now being made in the Stage Department of Tech Show, 1912. Rehearsals are being held every day, and Coach Eugene Sanger has several times expressed his approval of the way the men are taking hold of their parts. According to Stage Manager Thayer, the chorus, in all probability, will be picked this afternoon. Many new men, together with the men in last year's chorus, have made the number of competitors this year larger than ever before. At present there are about 60 men out for the chorus, and the final cut will reduce that number to 25. The principals rehearsed last Saturday afternoon and rehearsals will be held every day this week.

Work in the other two departments is likewise progressing. Four-page pamphlets have been sent out by the Publicity Department to Smith and Amherst Colleges, and it is expected that by this means larger audiences will be had at Northampton.

Work in the Business Department has so greatly increased this year that it has been necessary to select three Freshmen assistants instead of two, as formerly. General Manager Woehling has recently been in New York pertaining to the feasibility of giving a performance in that city. Up to this time, however, no definite arrangements have been made.

M. A. H. S. CLUB MEETING.

Second Meeting of Year to Be Held in Union Friday.

On Friday, March 15, 1912, at 7.30 o'clock, the Mechanic Arts High School Club of M. I. T. will hold their second meeting of the year in the music room of the Union. The meeting will be essentially of a social nature and a very pleasant program has been arranged. It will commence with a card party, the winners of which will receive Technology souvenirs as prizes. Then will follow a general entertainment, consisting of vocal and instrumental selections.

A number of the members are candidates for the Tech Show, and they are to give a number of sketches for the delectation of the members. This miniature vaudeville show is expected to be a big feature of the meeting. After this refreshments will be served.

Any member who wishes to be present at the entertainment will please sign up with Paris, secretary of the club, before Thursday.

Speaking about the cross-country course, a plank across the brook would help a lot.

The track team has a promising trio of sprinters in Wilson, Wilkins and O'Brien.

The Sophomore baseball team will have a good start with nearly all of last year's squad out.

Electricity has been proven a great stimulant to growing plants.

The government is establishing large wireless stations in the Aluetian Islands, Alaska, connecting with Alaska.

COURSE I MEN SEE CAMBRIDGE SUBWAY

Harvard Square Station Centre of Attraction for Civil Engineers.

The Civil Engineering Society finished a week of unusual activity last Saturday, when it conducted a trip through the new Cambridge Subway. Mr. H. F. Sawtelle, Course I, 1898, one of the designing engineers of the Boston Elevated Railway Company, was in charge of the party and showed the future engineers the details of the construction work.

The society and its guests, who numbered in all about two hundred students, boarded one of the regular three-car trains, which are now running on schedule time, to try out the crews, at Park street, and were taken to Harvard square, stopping for only a minute at the two intermediate stations. Here Mr. Sawtelle showed the party all over the station and also the new car barns and machine shop, a block away.

At Harvard square there are two levels, one for the incoming trains and the other for the outgoing. From the platform of the arriving subway trains the passengers go down an inclined passage to reach the level of the surface cars going to Mt. Auburn, Arlington and other suburbs. These regular surface cars go down into the subway at Harvard square and separate into two levels like the subway. Passengers coming in from the suburbs arrive on practically the same level as the outgoing subway cars.

It was the intention of the designers of the subway to get rid of the necessity of having the passengers go upstairs, except to get to the street. This has been accomplished by the construction of inclined passageways from the incoming subway level to that of the outgoing surface cars, and from both surface car levels to the platform of the in-town subway cars.

Concrete has been used extensively in the construction, even dispensing with the customary use of tiles at the stations by using instead a special white cement for the ceilings and most of the side walls. A wonderful draining system has been installed at all the stations. The ceilings have a gradual slope and the space between them and the back above are honey-combed with small drains. The plat-

(Continued on Page 2, Col. 2.)

MINING SOCIETY.

Special Lecture on "Australia" to Be Given Wednesday.

At eight o'clock Wednesday evening, March 13, the Mining Engineering Society will hold a meeting in the Union. The secretary of the society, L. H. Lehmaier, will deliver a lecture on "Australia," laying special emphasis upon the wonderful mining possibilities that that continent offers.

Mr. Lehmaier has secured for this talk a full collection of lantern slides from the Lord High Commissioner for Australia. These slides were sent from London especially for the lecture, and since they are to be used for educational purposes have been admitted free of duty.

The lecturer of the evening came to the Institute from Sydney University, one of the largest schools in Australia, and he is a special student in the Mining Engineering Course.

DR. O. P. GIFFORD WILL GIVE TALK THURSDAY

T. C. A. Has Secured One of Last Year's Most Popular Speakers.

For the talk on Thursday noon of this week the Christian Association has secured for a speaker Dr. O. P. Gifford of the Brookline Baptist Church. He spoke here last November on "A City Without a Church." His address was liked so well and brought such a record attendance that the Association invited him for a second time, with the hopes that a greater number of men would delight in hearing him again.

Dr. Gifford's address will be, as was his previous talk, of especial interest to Institute men, and although on a serious subject, is sure to be sprinkled with bits of his delightful humor and examples of his famous epigrams. One of the characteristic epigrams of his last talk was the small boy's definition of a lie—"An abomination in the sight of the Lord, but a very pleasant help in time of need."

COSMOPOLITAN CLUB.

Washington Memorial Object of Joint Entertainment.

The Cosmopolitan Club is planning an all-cosmopolitan entertainment, to which an admission fee will be charged. The proceeds of this affair are to be used for a Washington Memorial for the club. The object of this memorial is to show the gratitude which the members feel for what Americans have done for the world at large.

At a meeting to be held next Wednesday Mr. Suzuki of the Japanese Committee will make a report on what has been done in preparation for Japanese Night. Last year this affair was particularly entertaining, among other things exhibitions of jiu-jitsu being given.

The club is also making arrangements to hold an afternoon tea in the Technology Club some time during Junior week.

ELECTORAL MEETING.

Election of Editor-in-Chief Postponed to Next Meeting.

Saturday afternoon the Technique Electoral Committee held a meeting at which it was expected that the Editor-in-Chief would be chosen from the number nominated Thursday. But instead several names were added to the list and the election delayed until the next meeting.

The committee also made nominations for an Art Committee, which will open a competition in the near future for Assistant Art Editors, of which there are to be three.

The constitution, with the amendments proposed at the first meeting, was adopted.

Cactus poles are used in the Arizona desert for telephone poles.

A process for forcing lead, tin, copper, iron, cobalt or silver into glass for coloring purposes has been devised by two German scientists.

Stations have been installed along the coast of France from which to transmit wireless fog signals.

HARE AND HOUND RUN AT NEWTON SATURDAY

Five-Mile Course Laid Around Golf Links—Coach Kanaly Speaks to Men.

The Hare and Hound Club held its first spring run on Saturday at Newton. The course started at the Y. M. C. A. gym and circled back through the country outside the Newton golf links, and after five miles of rambling through the woods and field ended at the starting point. The special feature of the course was the number of hills encountered. The runners probably did more climbing in the course of the run than they have done since they began their Saturday runs at the opening of the school year.

The hares laid a number of successful blinds which kept the leaders busy picking out the right course and gave the slower men a chance to keep up. A rather easy pace was set by the bounds, somewhat increasing towards the finish. The runners were bothered a little by the muddy condition of the country.

After the run Coach Kanaly spoke to the fellows, touching on the 1914-1915 race and the fall cross-country meet of the N. E. I. C. A. A. He called attention to the fact that two-thirds of the men present were Freshmen and warned the Sophomores that the non-attendance of their classmates on these runs endangered the chances of the class. He then turned to the intercollegiate event of the fall. Technology, he said, had played a major part in the institution of this race, and it is the duty of Tech men to see that she gains the lead by winning the first race. He considers this spring work as a preliminary to the event. Although a fair number turned out Saturday, the coach wishes to see more on the run this coming Saturday.

Brett, 1914, and Loveland, 1915, ran as hares, and were followed by the following men: C. S. Lee, 1914; C. H. Wilkins, 1914; A. F. Peaslee, 1914; P. M. Currier, 1914; S. Gurney, 1915; E. Pratt, 1913; C. Hall, 1915; C. Washburn, 1915; T. Brown, 1915; W. Jennings, 1915; M. Hill, 1915; C. Lovell, 1915; W. S. Russell, 1915; C. Dunn, 1915; H. Bassett, 1915; J. Kefeher, 1915; Stanley T. Pond, 1915; and B. S. Atkins, 1915.

An electrically driven machine which divides dough into 10,000 rolls an hour has been recently installed in a New York bakery.

One-half of the total 600,000 miles of railroad in the world is in the United States.

Nearly 50,000,000 pounds of aluminum were produced in this country by the electrolytic process last year. In 1883 only 83 pounds were produced.

CALENDAR.

In Charge of S. F. Taylor, 1914.

Monday, March 11.

4.05—Chorus Rehearsal, Tech Show.

4.15—Glee Club Rehearsal—Union.

5.00—Lowell Lecture on Napoleon.

Tuesday, March 12.

1.00—Rifle Club—Zb Rogers.

4.05—Principals' Rehearsal, Tech Show.

4.15—Mandolin Club—Union.

Wednesday, March 13.

4.00—Biological Meeting—Zb Pierce.

8.00—Mining Eng. Soc.—Union.

THE TECH

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MONDAY, MARCH 11, 1912

HOCKEY.

The most successful season the Institute hockey team has ever had was brought to an end on Friday night last by the elections. We wish to congratulate the team on their choice for captain. Ranney is a conscientious man, a hard worker, and one who is excellently fitted to lead the team through a hard season.

Everything points towards the Institute possessing a very fine team again next year, and such being the case, it is imperative that we should be represented in the Intercollegiate tournament. Technology was only beaten in one college game this season, and on that occasion, though all honor is due to our conquerors, it was rather on account of the general conditions than by superior play.

Then another thing, the team receive their T. H. T.s if the advisory committee see fit to grant them; they have no actual right to them; they receive them as favors. Cannot this state of affairs be changed? Should a team with the record that our team had during the present season receive only T. H. T.s and these in the guise of favors?

We have heard the excuse offered that the granting of the T.s to the hockey players would make the number of these in the Institute too many, but that is absurd. There are at present nine letters in a school of fifteen hundred odd men. The granting of ten more would bring the number up to nineteen, a very small percentage compared with most colleges in the country.

We advocate the granting of the T to the hockey team, as they will be only receiving what is their due, and which they have surely earned.

TECHNIQUE, 1912.

After working faithfully on the copy of Technique, 1912, its editors have it practically complete. The art work has also progressed nicely. The remaining item to be taken care of is the business of signing up for the Technique in preparation for their issue in April.

More than 8000 commercial automobiles are registered in New York State, of which half are used in New York City.

COURSE I MEN BUSY WITH THESIS WORK

Experiments With Concrete Deal With Its Constructive Properties.

Thesis work is coming in for a large part of the efforts of many of the Course I men. Two of the men are continuing their thesis work of last year in the study of concrete with reference to its tension strength. Two other students are making determinations of the parting-strengths of an angle of concrete. They are making concrete specimens of various mixtures in order to find the effect of all possible combinations of the ingredients on the strength of the angle.

Other students of the department are testing the shearing strength of a concrete beam by means of torsion. The mortar is being frozen at different times after being mixed to determine the effect of this treatment on the strength.

Another feature of the work is the testing of the supporting power of small arches under a distributed load. To distribute the load evenly over the top of the arches, sand fills are being used.

COURSE I TRIP.

(Continued from Page 1, Col. 2.) forms are similarly constructed, as well as having the modern "sanitary" corners, and can be flushed when necessary to clean them.

The car barns and machine shop also came in for their share of inspection. All the cars were brought to this shop and their electrical equipment installed there. These cars were specially constructed for this subway, they being about seventy feet long by nine and a half feet wide. With an ordinary load they weight about seventy tons and have been equipped with 200 horse-power power motors.

The section of the subway from Park street to the river was built by the Boston Transit Commission and the rest in Cambridge by the Boston Elevated Company. The latter section is leased to the city of Cambridge. Mr. H. F. Sawtelle and E. R. Springer, also a Tech man, were the designing engineers of the construction work.

RIFLE CLUB MEETING.

Tomorrow at 1 o'clock the Varsity Rifle Club will hold a meeting of the utmost importance in Rogers 26. It is hoped that the men will attend, since that called for on Friday was useless since there was not a quorum present. The business of the meeting is such as to require immediate attention.

The club has fared excellently since its organization, having won its two matches easily, the first against Brookline High and the second with Company F, of the 6th Regiment, M. V. M.

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GRAD HONORED.

C. W. Pike Chief of Electrical
Bureau in Philadelphia.

Clayton W. Pike, 1889, has recently
been appointed chief of the Elec-
trical Bureau of Philadelphia. He is
a graduate of Course VI and has
spent most of his time with various
manufacturing concerns. He was ap-
pointed an inspector in electrical en-
gineering at the University of Penn-
sylvania, in which capacity he served
until becoming vice-president of a
large electrical contracting concern.

Mr. Pike is a prominent member of
several electrical societies in Phila-
delphia and the author of a number of
electrical handbooks.

B. A. A. WINS AGAIN.

Hockey Team Easily Outclasses
Seven from Canada.

In a very one-sided game the B. A.
A. hockey team overwhelmingly de-
feated the Amherst Ramblers Satur-
day night at the Arena by the score
of 15 to 1.

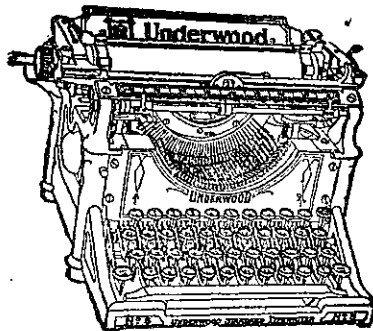
The game was fairly interesting in
the first period, and the Ramblers
managed to hold the fast local seven
to six goals, but they were unable to
get the disk by Canterbury, who
played an excellent game.

The second half was nothing but a
procession for the B. A. A., and before
the final whistle blew there had been
nine more goals scored by the Uni-
corn Club.

ITEMS OF INTEREST.

Tunnels on the Southern Pacific are
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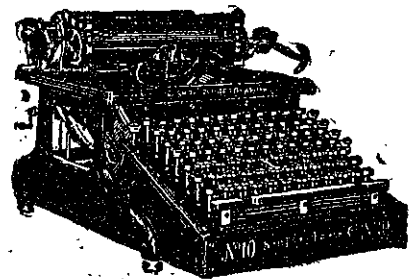
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