

# THE TECH

VOL. XXXIII. NO. 137

BOSTON, MASS., WEDNESDAY, FEBRUARY 25, 1914.

PRICE TWO CENTS

## SOLVE-A-PUZZLE

The blue dance and vaudeville tickets for "Yish-ka-bibble" are going like hot cakes. It is very nearly impossible to find two that have not been sold. And this is no idle jest. So let it be a warning to those who are procrastinating in the hopes that there are sure to be plenty left at any time which may suit their convenience to buy a ticket. The number of these tickets is limited by the capacity of the hall to three hundred. There can be no increase in this number and the supply is practically exhausted.

Realizing the value that these tickets have acquired, it has been decided to hold a little puzzle with two of these tickets as the reward for the lucky man who succeeds in arriving at the best solution. The puzzle is

(Continued to Page 3.)

## EXPECT VICTORY

### Both Class Teams Confident on Eve of Basketball Game.

Both lower-class teams will go on the floor tonight confident of victory—the Sophomores especially so in view of their recent win over the Quincy Y. M. C. A., and the Freshman because of what they regard as a moral victory over the Dartmouth youngsters the other night. The game this evening is in a measure decisive, since the Sophomores by winning it can win the series, and the Freshmen by defeating them will secure for themselves the even fighting chance for which they are looking.

'16's win over the Y. M. C. A. came after the most consistently played game which they have shown this year. It was necessary to play an over-time period, in which, by clever team work and quick shooting, the final basket was made, Rey-croft scoring it. The game has given the Sophs confidence in their ability to tighten up and work smoothly when hard pressed.

The Freshmen, although they lost both to the Dartmouth Freshmen and to Colby, yet are inclined to regard these defeats as results of the slump which travelling so commonly induces among teams not professionally accustomed to it, and to point out that in neither game did their team begin to fall behind until the second half, when the effects of the quick jumps from city to city became apparent. With the rest which the men will have had before tonight, the '17 cheering section believes that it will more probably applaud victors than console losers.

## HARE AND HOUNDS HOLD MEETING TODAY

### Annual Election of Officers—All Interested Are Welcome.

Today at 1.30 the Hare and Hound Club will hold its annual meeting in Room 8, Engineering C. As this is the occasion of the election of officers for the coming year and the presentation of the Treasurer's report all members are requested to be present.

Captain Cook of the Cross Country Team will address the Club, thus starting Cross Cross Country work for next fall on its way.

Any man who is at all interested in running is welcome to the meeting. The program for the spring season is not decided as yet but there will be several runs in the neighborhood, a race over Tech course open to all with prizes for the first six to finish and then finally the annual Freshman-Sophomore race on March 28.

The Hare and Hounds Club aims particularly to fill two needs of the students. The first is to give the men good, healthy exercise on Saturday afternoon, when the Club holds its runs. On these runs there are generally two squads, one for the men desiring fast work for practice's sake and another squad which takes the course slower for those who are not trying for any teams but just want the exercise. A rubber is taken on all the trips and there is generally a swimming pool at the disposal of the students after the run.

The dues for the Club are but fifty cents which covers the entrance fee for all runs including the Annual handicap Cross Country, at which three silver cups are given.

## DR. GIFFORD TO SPEAK

### Favorite Brookline Speaker To Give T. C. A. Talk Tomorrow.

Not a few Tech men will welcome Dr. O. P. Gifford, D. D., of Brookline, as the T. C. A. speaker tomorrow noon in the Union. Dr. Gifford is a favorite with Tech men, and last year spoke in the Union on two occasions. Dr. Gifford is pastor of the Brookline Baptist Church.

For his topic tomorrow noon, Dr. Gifford has chosen "The Rich Fool." It is expected that the room in the Union will be well filled, for the speaker is well enough known to Tech students to need no endorsement.

## PROM COMMITTEE

The Junior Prom Committee will meet today, Wednesday, at 5 p. m. in the Union. Every member is expected to be present.

## PRESIDENT MACLAURIN AT PITTSBURGH, PA.

### President Advises Carnegie Tech and Pittsburgh University on Co-operation.

After attending the banquet of the Northern Ohio Technology Club at Cleveland, Ohio, Monday evening, President Maclaurin, Mr. Jasper Whitney and Isaac W. Litchfield, of the Alumni Association, went to Pittsburgh, Pa., Dr. Maclaurin went to Pittsburgh principally to discuss plans for the proposed co-operative plan between the Carnegie Technical Institute and Pittsburgh University. The President conferred yesterday with the authorities of those two institutions, giving them advice as to the plan proposed.

It is planned to have the two institutions co-operate much as the Institute and Harvard will when the Tech-Harvard agreement goes into effect.

At a dinner given last night, Dr. Eaton, President of the Associated Harvard Clubs and Mr. Julian Kennedy were among the speakers. Mr. I. W. Litchfield also spoke.

## GLEE CLUB REHEARSAL

### Concert at Holliston Friday—Club Smoker Coming.

Yesterday the Glee Club held their final rehearsal in preparation for the concert at Holliston Friday evening. The men will leave from the Trinity Place Station on the 6.20 train. Only a limited number of men will go. They will be the following: 1st tenors, Jackson, Marine, Faunce and Swan; 2nd tenors, Parkinson, Walter, Schabacker, Coldwell and Shephard; 1st basses, Rockett, Ahern, Ekdahl, Dalton and Tisdale; 2nd basses, Norton, Ross, Blakeley, Tabbutt and Hayward.

For the past two rehearsals several men have been trying out for leader. Yesterday Tabbutt had charge, and according to Leader Tallman he did exceptionally well.

Wednesday, March the fourth, there will be a regular rehearsal and meeting of the combined musical clubs at 7.30 p. m. in the Union. This meeting is primarily for the purpose of affording the fellows a chance to meet all the men in the clubs. There will be plenty to smoke and eat, and chance for all to get acquainted.

## SENIOR PORTFOLIO

Sixty Seniors have as yet failed to sign up for sittings at the photographers. Appointments must be made this week if the pictures are to appear in the Portfolio. A member of the Portfolio Committee will be at a table in the Union each day this week at noon to make appointments

## ANOTHER GOOD TRIP FOR THE ELEC. ENG. SOCIETY

### Electrical Engineering Society Visits New Boylston St. Subway.

Last Saturday afternoon the Electrical Engineering Society took the first of a series of trips of a non-electrical nature which are being arranged by President Richmond of the Society. This trip was an inspection of the new Boylston Street Subway and was much appreciated by the men who went on the trip. The men entered the subway at the future Dartmouth St. Station on the inward bound track and then divided up into three parties each of which was under the leadership of one of Hugh Nawn's engineers.

As the party was at the point where the most serious of the company's engineering problems was found, that of getting safely by the tower of the New Old South Church, the engineers began with a description of the construction at that point. The tower of the church leaned thirty-seven inches in the direction of the Hotel Lenox and rested on a foundation which was not any too firm. Up to this point the subway had been built on piling driven down into the clay which formed the foundation on which the Back Bay is built. Driving piles, however, causes much vibration in the earth and as this vibration would have been bad for the tower, a "floating" foundation was used. That is, a foundation of cement

(Continued on Page 2.)

## INSTITUTE COMMITTEE

There will be a meeting of the Institute Committee tomorrow at 4.15 p. m. in Room 8, Engineering C.

## WEATHER

Fair and somewhat warmer; moderate northwest to west winds.

## CALENDAR

Wednesday, February 25, 1914.

- 1.00—Portfolio Committee in Union.
- 1.30—Meeting of 1917 Baseball Candidates. Union.
- 1.45—M. E. Trip Starts. Rogers Steps.
- 4.15—Orchestra Rehearsal. Union.
- 4.30—1917 Executive Committee Meeting. Union.
- 5.00—Prom Committee. Union.
- 5.00—Executive Committee of Institute Committee. Union.
- 8.00—Basket-Ball Game—1916 vs. 1917—Gym.

Thursday, February 26.

- 1.00—Portfolio Committee in Union.
- 4.15—Institute Committee. 8 C.
- 7.30—Chemical Society Talk. Union.

# THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

Published daily, except Sunday, during the college year by students of the Massachusetts Institute of Technology.

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

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.

WEDNESDAY, FEBRUARY 25, 1914.

## IN CHARGE OF THIS ISSUE.

Editors—Ralph Millis, '16; H. S. McQuaid, '17.  
Associates—R. B. Stringfield, '15.

The wonderful spirit and the loyalty for their Alma Mater which Technology graduates from all parts of the country are showing, is something which should make every undergraduate proud of the fact that he belongs to Tech and will some day be received into the ranks of such men as are slinging the praises of Technology. The best part of the whole thing is that every one of these men has something more substantial than spirit with which to back up his school—they are all practical men who have made places in the industrial world for themselves by virtue of the sound and thorough training of the good old Institute. Try to imagine several thousand middleaged men who have seen all sides of practical life and who have contributed largely to the advancement of science and civilization, getting together with that wonderful school spirit which was planted in their hearts twenty-five or thirty years ago—doesn't that prove that these men realize what a wonderful debt they owe the Institute? Do you realize the immense debt you are contracting now and do you appreciate what the Institute and its alumni are doing for you? This All-Technology Reunion should be an inspiration to every true Tech man for better work and for greater loyalty to his Alma Mater.

## INSTITUTE COMMITTEE

The Executive Committee of the Institute Committee will hold a meeting today in the Union at 5 p. m. Members are requested to be promptly on time.

## B. A. A. DEFEATS TECH BY SCORE 9 TO 0

### Tech Seven Outclassed In Every Department of Game at Ice Carnival.

Tech was defeated by the B. A. A. last night at the Ice Carnival in the Arena. Although there were only two ten-minute periods, the B. A. A.'s scored nine goals, which showed how much they outclassed the Technology seven. On account of the scenery placed at one end of the rink, the skating surface was just a little over a half its usual size thus retarding team work to a great extent.

The B. A. A. wasted no time getting started, but scored four goals in two minutes. The Tech team gave little or no resistance, which is attributed by many to the loss of Winton, the center, and Eichorn, who played point for the B. A. A. Cochrane was the star for Tech.

### The line-up:

B. A. A.	TECH.
Foote, Iw.....Iw,	Sawyer
Clifford, c.....c,	Ross
Hicks, r.....r,	MacLeod
Osgood, r w.....r w,	Fletcher
Huntington, c p.....c p,	MacRea
Eichorn, p.....p,	Cochrane
Chadwick, g.....g,	Lowengard
	Jewett

Score: B. A. A. 9, Tech 0. First Half: Scores made by, Hicks (2), Foote (2), Huntington (2). Second Half: Scores made by, Foote (2), Osgood.

## TRIP TO EDISON PLANT

### Second M. E. Society Party Leaves Rogers Steps at 1.45.

The second division of the Mechanical Engineering Society, which is to visit the Edison Power Plant in South Boston, starts from Rogers steps this afternoon at 1.45. This party, like the one that took the trip yesterday, will be composed only of those who have handed in their names.

Two of the Professors from the Mechanical Engineering Department will conduct the party, each having charge of one of two groups, which will be formed before entering the plant. The men are requested not to stray away from their groups as the Edison Company has permitted the Society to go through the plant on condition that the groups be kept compact.

## SHOW REHEARSAL.

### Men Will Meet Thursday in Union—Orchestra Rehearses Today.

The first Tech Show rehearsal will be held Thursday at 4.15 in Rooms A and B at the Union. The following men are requested to report: Spencer, Bassett, Moulton, Hannah, Camp, Chandler, C. L. Smith, Norton, Swift, Ramsbottom, Russel, Marine, Gillespie, Farnsworth, Schabacker, Wallis, Hauser, Sandburg, Ford, Baker, Hubbard, Couch, Cristal, Stimets, Dodson and Bidwell.

The cast will meet this afternoon in the Union Dining Room, and tomorrow in 8 Engineering C.

The Show orchestra will rehearse at 4.15 today in Room A.

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## ANOTHER GOOD TRIP FOR THE ELEC. ENG. SOCIETY

(Continued from Page 1.)

placed directly on the earth itself without the support of piles. To have this cement carry all the weight of the cars, earth, street traffic, etc., which it will have to support it was found necessary to have a base of cement five feet in thickness, whereas the cement on top of the piles is only about half that thickness.

At about Berkeley Street there will be a crossover from the inward bound track to the outward bound track and this required the abolition of the row of braces between the tracks which supports the roof the majority of the length of the subway. With the type of arch used in the former construction this was impossible so that the arch at this point is about eight feet higher than in any other

part of the Subway. To prevent the walls from spreading iron tie rods have been put across just at the point where the arch joins the walls.

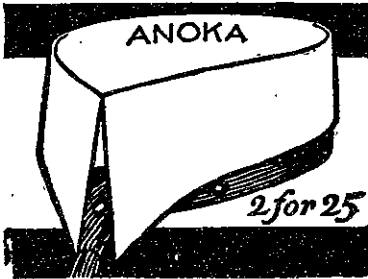
At Arlington Street a large sewer was encountered so that work had to be stopped temporarily at that point. Before work can be resumed it will be necessary to build a temporary sewer over the finished portion of the subway connecting the sewer on either side of Boylston Street. Then after the subway is put through, a new piece of sewer will be put in over the subway, but in the same straight line as the old one.

At this point the roof of the subway is eighteen feet below the surface of the street and from this point it goes in a straight line up to Station 16 near Massachusetts avenue where the roof is but eighteen inches below

(Continued on Page 4.)

# Anoka New ARROW Notch COLLAR

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SOLVE-A-PUZZLE.  
(Continued from Page 1.)

this: Who in your opinion would be the best man among the students to take the part of the Back Bay society matron as she was described in one of the earlier of this set of stories? You remember her, of course. Very dignified, very much wrapt up in the doings of the social world and in nothing else, with a disdainful, haughty air and with a walk characteristic of the kangaroo. Now who that you know or have seen among the men at the 'Stute would be best able, either from natural ability or from cleverness at impersonation, to portray this part as it is to be given in Huntington Hall on March 7?

This is an opportunity to put into practice some of the ability that any Institute man is supposed to acquire in the line of solving puzzles. Also remember the award.

The conditions of this contest are simple and somewhat reminiscent of the "Boston American." The competition is open to anyone except those who have had any part in the planning of "Yish-ka-bibble" and those who at the time of the publication of this announcement have not been in-

formed as to the identity of the man who has already been picked for the part. Answers must be written on one side of the paper only and must be at the Cage addressed to "Yish-ka-bibble" before 5 o'clock tomorrow. Any answers arriving after that time can not be accepted. In case of a tie the tickets will be divided into sufficient parts to provide for all of the tying candidates. Announcement of the winner will be made in Friday morning's TBOH.

In closing remember again the tickets and the rapidity with which they are disappearing. If you can not get blue ones get hold of two white ones or it will be found that the seven hundred of them have likewise been all disposed of. Don't delay. BUY-A-TICKET if you wish to DANCE-A-STEP at YISH-KA-BIBBLE.

## MRS. STOKES GIVES TALK TO STUDENTS

Aims of Socialism Outlined Before Large Gathering Monday Noon.

One of the largest crowds ever gathered in the Tech Union listened to Mrs. Rose Pastor Stokes, well known social worker, when she spoke yesterday on labor problems. The speaker held the attention of the audience absolutely, and every word she said could be plainly heard.

Mrs. Stokes spoke under the auspices of the M. I. T. Forum. Julius Kutner, president of the Forum, introduced the speaker, who is the first woman to give a talk in the Union.

She wanted to interest all intelligent people in the Socialist and labor movement. The time is coming, she said, when every one must have an opinion of these matters, which must be based on solid grounds. Hence the Socialists welcome all intelligent interest, even if it is in the form of opposition.

The speaker then outlined some of the basic principles of her economic ideas. The laborers produced all wealth, even that which the capitalist uses to promote industry. Hence the workers are entitled to the profits of industry. The capital used by the leaders is not produced by them, and they do no work in return for the interest they draw. This interest, is, then not their due, but really belongs to the workers whose labor produced it.

President Judson of Chicago has been granted six months leave of absence for the purpose of studying medicine, surgery and public health in China.

Three students at New York University are said to be working their way through by teaching tango, hesitation and maxixe.

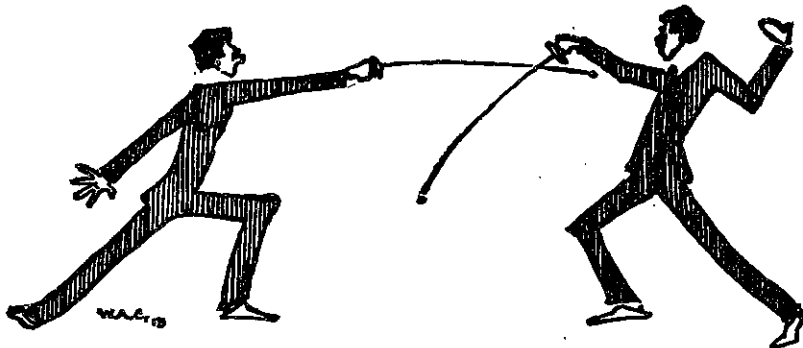
Two students at Illinois have developed scarlet fever.

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**TOMORROW, 8 to 10:40. LAST EVENING PERFORMANCE THIS SEASON OF MONNA VANNA.** Garden, Swartz-Morse, Muratore, Marcoux, Lydkar. Cond., Andre-Caplet.

**WED., 8 to 11:35. REAPPEARANCE OF MR. ZENATELLO AND MME. GAY.** IL TROVATORE. Amsden, Gay, Zenatello, Ancona. Cond., Moranzoni.

**FRI., 8 to 11:20. FIRST APPEARANCE THIS SEASON OF FELIX WEINGARTNER AND MME. WEINGARTNER.** OTHELLO. Weingartner, Levstov, Zenatello, Scotti. Cond., Weingartner.

**SAT., 2 to 4:40. LAST TIME THIS SEASON AND LAST APPEARANCE OF MARY GARDEN, MONNA VANNA.** Cast same as Monday.

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### ANOTHER GOOD TRIP FOR THE ELEC. ENG. SOCIETY

(Continued from Page 2.)

the surface. From here it goes down in order to pass under Muddy river in the Fenway. Then it rises again and comes to the surface at the junction of Commonwealth avenue and Raleigh street.

The party then turned and went back in the other direction to the mouth of the subway and then returned to the pump room and emergency exit at the Fenway where they climbed up to Newbury street, fifty feet above the bottom of the subway.

During the trip the engineers answered questions and told much about the problems of the work. The "water level" in the Back Bay is only about five feet below the surface and in order to work this level had to be lowered by continuous pumping to below the level of the bottom of the subway. To keep the level, drains were put in below the bottom. When piles are put in they are put in below the "water level" and should the level become lower and expose the piles "dry rot" will set in and the piles rapidly deteriorate. By the lowering of this level in the subway the piles of the surrounding buildings have been exposed and these must again be covered. In order that the drains shall not work after the subway is completed a very thin mixture of cement and water is forced into the drains. This mixture is very rich in cement and as a result the drains are completely filled. After this the water will gradually rise and seven or eight months later the old "water level" will be attained. At the Fenway the engineers were confronted with the problem of getting rid of the exceptionally large quantities of hydrogen sulphide which threatened to escape and fill the Hotel Somerset. In order to get under the river in the Fenway they had to construct two large cofferdams cutting off that portion of the river under which they wished to go and then pipe all the water over. Here the roof of the structure is two feet above the level of the river bottom.

The subway proper is completed from the entrance to Arlington street with the exception of twelve feet which cannot be bored until the weather becomes more seasonable. The stations are not provided for under the present contract and they are therefore merely outlined. The Elevated Company has begun to put in the trolley wires and has carried this work from the entrance to Boylston street. With the coming of summer the work of putting in the two feet of rock ballast and the laying of the rails will probably be begun.

### GRADUATE TO TALK ON TECHNICAL REPORTS

Arthur D. Little, '85, Will Address Chemical Society Thursday Evening.

On Thursday evening at 7.30 in the Union, Mr. Arthur D. Little, '85, will address the members of the Chemical Society on the subject of "Technical Reports." Mr. Little is a member of the Institute Corporation at present, and is also the president of the American Chemical Society. He is head of the largest independent chemical organization in America, and the Chemical Society has been fortunate to secure him to talk on such an interesting subject. The subject is especially interesting at present to seniors in view of the fact that these are coming along and require a great deal of thinking to get them into the right form.

Technical Reports are the reports put out by engineers and professional men in all branches. The engineer who can make a good report to a man who desires information on some process which he intends to finance, is the engineer who is going to get ahead in his profession. Mr. Little, as a consulting chemical engineer, has been writing reports for the past twenty years and has developed a wonderful technique in this work. Technical reports from his laboratory excel in the form in which they are made up and the quality of conveying everything essential and leaving out the non-essentials.

The talk will be illustrated by slides of actual work done by Mr. Little and will show how it is possible to get out a report that is not only interesting but has a definite value in conveying the information desired. Reports that are attractive in form and mechanical detail are very important in the engineering world because they create a favorable impression at first glance that adds greatly to the value of the report from a business standpoint. As almost every engineer, no matter what his branch of profession, has to write a report at some time, it is quite important that he should be able to take advantage of anything that will help in the mechanical setup of this class of writing.

The Chemical Society extends a cordial invitation to all seniors in the chemical courses to be present at Mr. Little's talk. Smokes will be provided and also refreshments. The day is Thursday; the place is the Union; the time is 7.30 p. m.

The Cornell faculty is considering the question of raising the tuition of lazy students who refuse to work.

## The Original TECH BARBER SHOP

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### FACULTY NOTICES

Second Year English Class for Foreign Students.

Students are to provide themselves with the text book Reinsch's "World Politics," to be found at MacLachlan's. Book should be brought to class Thursday. H. L. SEAYER.

### COLLEGE NEWS

The architects at Ohio State are working upon the drawings for the Class of '38 prize, which was given to the University last June. The contest is being carried on under the rules of the American Institute of Architects. The contest will close on March 1.

The Intercollegiate Prohibition now has branches in over two hundred sixty colleges and universities, including Harvard, Yale, Cornell, Wesleyan and Syracuse. An extensive series of oratorical competitions including local, state, interstate and national meets, is to be conducted in the near future. These orations will all deal with the liquor question. In all the association expects to have about eight hundred competitors.

Since 1909 the number of co-educational students in German Universities has increased from about 1100 to over 5200. Over one thousand at present are registered in professional courses such as law, medicine, and technical lines.

The University of Illinois has adopted the plan of most of the eastern colleges in beginning football practice in the spring. The first few weeks of practice will consist mostly of planning football plays on the blackboard. Outdoor work will begin as soon as the weather permits.

Forty-nine intercollegiate championships have been decided. Out of these Cornell has won thirteen; Yale, nine; Princeton, eight; Harvard, five; Columbia, five; Penn, three and Swarthmore, Johns Hopkins, Army and Navy, each one. Cornell has won four of these in major sports and Princeton also captured four in football, baseball, track or crew. Much discussion is going on as to whether Princeton should not come second in the list since with one exception Yale's championships have been won in minor sports, such as golf, tennis and swimming.

### FRESHMAN BASEBALL

Candidates for Freshman Baseball are requested to meet this afternoon at 1.30 in the Union, Room A. Battery men especially should be present, as battery practice will begin soon. As the team as yet has no manager, an election will be held to fill this position.