

THE TECH

VOL. XXXIII. NO. 43.

BOSTON, MASS., MONDAY, OCTOBER 6, 1913.

PRICE TWO CENTS

ELECTRICAL SOCIETY TO MEET WEDNESDAY

All Members of Courses VI and XIV
From the Three Upper
Classes Invited.

The first of a long list of meetings and excursions of the Electrical Engineering Society will be held next Wednesday evening, October 8, at 8 P. M. in the Union. The occasion will be a reception by the present members of the Society to the new members of Junior and Sophomore classes. So much enthusiasm has been shown by the members of the Junior class that a new plan has been formulated to extend more broadly the privileges of the Society to the Sophomore class, so that it will not be necessary for them to wait two years after entering the Institute before they can enjoy the extensive privileges of membership. Many members of the Junior class have expressed their regret that they were not more fully advised of their privileges when Sophomores, and have requested that the Sophomores be given full instruction as to their rights.

The constitution of the Society provides that the Sophomores are entitled to associate membership. This only limits them in voting and obtaining shingles. They are entitled to the same excursions and lecture privileges as the regular members. The dues for associate membership are the same as full membership, fifty cents a term. Whether or not the Sophomore class will receive the attention it deserves will be determined by the number present from that class at the reception.

The meeting promises to be a very lively one. Professor Jackson will be on hand to meet the new members and will give a short talk on the "Relation of the Society to the Institute." Professor Pender who has recently been appointed director of Electrical Engineering Research Department will speak on the "Objects of the E. E. Research Department." Addresses will be given by other members of the Faculty and by members of the Senior class. One of the topics is to be the "Niagara Falls rip at id Year."

All members of the Sophomore, Junior and Senior classes from Courses VI and XIV are invited, and it is hoped the attendance will be large. Light refreshments will be served.

POTTERY IMPORTATION

The pottery imported into the United States in 1912 was valued at \$9,555,530, but the domestic production, according to the United States Geological Survey, was valued at \$36,504,164. The exports were valued at \$1,177,784. The domestic production was 81.4 per cent of the total consumption against 78.9 per cent in 1911.

Among the passengers of the Cunard line steamship Laconia was President MacLaurin of the Institute. The Laconia is due to dock at East Boston next Wednesday.

MUSICAL CLUBS ISSUE CALL FOR CANDIDATES

Talk on Work Will Be Given Wednesday—Many New Trips Planned.

The M. I. T. Musical Clubs will start work next Wednesday afternoon at 4.30, when the annual talk outlining the plans for the coming year will be given. In advance it may be stated that negotiations are under way for trips to western Massachusetts, Connecticut, Rhode Island, and possibly New York; in addition to the usual trips to the cities near Boston. The clubs should have a busy and enjoyable season.

President Taylor and General Manager Salisbury have expressed themselves in favor of large clubs, and it is hoped that a large number of candidates will present themselves. Anyone who can sing or who has a speaking acquaintance with any instrument suitable for the mandolin, or banjo clubs should come around to the trials. The glee club needs some good second tenors and first basses; the mandolin club wants especially guitars and one or two cellos, besides mandolins and mandolas; and the banjo club desires banjos and guitars.

The mandolin and banjo trials will take place in the Union Thursday afternoon at 4.15, and the glee club candidates are to report on Friday at the same hour.

CANDIDATES FOR PAPER

All Men Out For THE TECH Report Today.

This afternoon at 4.15 P. M. the Freshmen candidates for THE TECH will have their first opportunity to try out for one of the most important activities at the Institute. Every man in the class of 1917 is expected to go out for some activity and the newspaper work is not only interesting but instructive. A large number of men are always needed for the publication of THE TECH and the representation from the Freshman class is always large. There are a number of positions open in every department for live men. Experience is unnecessary. The men who come out for the paper at the beginning of the season have a great opportunity to make the staff in the fall, and it is hoped that a large number of candidates will be present at the meeting this afternoon in the Lower Office of THE TECH in the Union.

T. C. A. DISCUSSION CLASS.

The first T. C. A. discussion class of the year will be held today at 1.30 in 5 Eng. B. The class will be led by Sec. Talbot, and the subject will be "The Purposes of a Higher Education."

The talks during the first term will be on the book, "Not in the Curriculum," and classes will be arranged by Sec. Talbot or his assistant to suit the convenience of those desiring them.

FRESHMAN PARADE A HUGE SUCCESS

New Class Announce Arrival By Enthusiastic Yells On Rogers Steps.

When the large body of Freshmen gathered in the dining room of the Union came out, the boisterous part of the evening's entertainment just began. The two hundred and twenty three men all formed a line, four in a rank, and marched over to Rogers steps, yelling to their heart's content. The marshalling of the men was very well looked after by several Junior adherers, and when the "steps" were reached the fellows all united in giving a tremendous ovation. All the regular M. I. T. yells were given lustily, and when it came to '17 all others were left in the shade.

After leaving the Rogers Building the joyous Freshmen snake-danced down the street until the Thorndike was reached, and here the first Sophomore was caught and used to amuse the "overwhelming majority." Amidst the deafening "We are happy" and "Seventeen," "Seventeen," the unlucky prisoner was raised to a prominent position and made to render for the benefit of the "savages."

When the Hotel Touraine was reached the men all massed together on the steps at this point of vantage and once more these strong-winded lungs were imposed upon. The traffic at all points where the Freshmen made their presence known suffered as a consequence, and the red lights carried by the leaders caused more than one motorman to wish that he had never seen such a merry crowd. After the retail district and the theatres had been made aware of the presence of the "latest at Technology" the ranks were reversed, and once more the procession was headed for Rogers. On the way back several Sophomores were captured and their presence was heartily welcomed by their "inferiors" and the neighborhood in the immediate vicinity was certainly alive to the fact.

At the steps on Rogers the entering class gave their final parting yells for the evening, and they showed by their fine spirit that the Sophomores will have to consider them a very formidable foe on Field Day.

SOPHOMORE TUG-OF-WAR

Candidates to Report at Oval This Afternoon.

Manager K. M. Sully of the 1916 Tug-of-War Team has issued a call for candidates to turn out this afternoon at 4.00 P. M. The scene of activities will be the Oval, and for the present at least the team will practice on alternate afternoons only, as only one rope is available. It is rumored that the other rope is still at the field, and if this is found to be true, daily practice will be at once resumed.

Manager Sully wishes to see a large crowd of new men on hand, for with many of last year's team missing the problem of turning out a winner is very great.

Have you paid your class dues yet?

LARGE CROWD ATTENDS DINNER TO FRESHMEN

Speakers Present All Sides of Institute Life to New Class.

The dinner given to the Class of 1917 by THE TECH Saturday evening in the Union brought out class spirit and Tech spirit in a wonderful way. The attendance, 223 men, was considerably larger than last year. The speakers were well chosen to present in an interesting way the different sides of Technology life, and the after effects of the dinner are said to have been very spirited.

The crowd assembled in the large room of the Union and moved toward the dining room in a body at about 7 o'clock. F. C. Foote, '15, chairman of the dinner, started things off by leading a regular M. I. T. for the class of '17. Then every one got busy with the eating part of the dinner.

Dean Burton was the first speaker. He said that in the past he had made the mistake of talking too much about activities and too little about studies. He advised new men not to forget for an instant that they are here for an engineering training. Activities are only good as a supplement to the Institute work. He spoke of the importance of Field Day to the two lower classes, saying that it is a fair test of strength in which there is fair play and the best class wins. He emphasized the fact that a class which does not win a Field Day feels itself disgraced, and told the men that by coming out for their teams they could begin a loyalty to their class which should be undying. (Continued on page 3.)

CALENDAR

Monday, October 6, 1913.

1.30—T. C. A. Discussion Class—5 Eng. B.
4.00—1917 Relay Team—Field.
4.00—1917 Football Team—Field.
4.00—1916 Relay Team—Field.
4.00—1916 Football Team—Oval.
4.00—1916 Tug-of-War—Oval.
4.15—Candidates for THE TECH—THE TECH Office—Union.
5.00—1914 Board Meeting—27 Rogers.

Tuesday, October 7, 1913.

4.00—1917 Relay Team—Field.
4.00—1917 Football Team—Field.
4.00—1917 Tug-of-War—Oval.
4.00—1916 Relay Team—Field.
4.00—1916 Football Team—Oval.
4.00—1916 Tug-of-War—Oval.

Wednesday, October 8, 1913.

4.30—Musical Clubs' Meeting—Union.
8.0—E. E. Society Reception—Union.

Thursday, October 9, 1913.

1.30—T. C. A. Talk—Union.
5.00—Junior Nominations Due—Cage.

Friday, October 10, 1913.

4.15—Institute Committee Meeting—Union.

Saturday, October 11, 1913.

5.00—Senior Nominations Due—Cage.
Afternoon—Hare and Hounds Run—Hyde Park.

THE TECH

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MONDAY, OCTOBER 6, 1913.

Perhaps no small part of the advantages that Tech offers are in no way directly connected with the school, but are due to the location, for the fact that the school is in Boston throws open many opportunities which should be particularly valuable to Tech men who must always guard against the narrowness of their course, against the danger of graduating with an engineering training and but little broad education.

Boston is noted the width of the country as the center of learning and music. Among the most notable offerings in music are the Boston Opera Company, the Symphony Concerts, and many recitals by well-known musicians. In the line of art the museum is always at hand, and many special exhibits are held throughout the city at all times. Lectures of popular interest on problems of the day are constantly being given, the most notable of these being the Ford Hall meetings. These last, because of their extreme freedom, have created for the hall in which they are held the name of the "New Cradle of Liberty." Many fine examples of architecture are within easy reach and in points of historic interest this section of the country is easily the leader.

All of these points form a vital part of any man's education, and for a man who had lived in Boston for four years to be ignorant of them would be a cardinal sin. It behooves all Tech men to take advantage of these opportunities and help to kill the idea that Tech men must necessarily be narrow.

Candidates for THE TECH are always welcome.

SECRETARY TALBOT OF T. C. A. REAPPOINTED

Mr. Frederic H. Blair Receives Appointment As Assistant to Secretary.

During the latter part of the previous week several appointments were made that will be of interest to Tech men at large, and especially to the men connected with the Technology Christian Association. The first of these was the reappointment of Mr. L. Raymond Talbot to the position of General Secretary of the T. C. A. Mr. Talbot resigned his position at the end of last year, and the action of the Institute in making the reappointment will be heartily welcomed by all the men who have come into contact with the General Secretary.

Mr. Talbot, however, will be at the Institute on part time only. The remainder of his time is divided among his duties at Boston University, where he holds the position of instructor in French and also the position of Executive Secretary of the University. Mr. Talbot is connected with the B. U. Y. M. C. A. as General Secretary as he is with the T. C. A. In addition to this, he is also assistant to the president of B. U.

It has been found necessary to establish a new office in the T. C. A. under existing conditions, and this new position of assistant to the General Secretary has been filled by Mr. Frederic H. Blair, who received the appointment last week. Mr. Blair comes from the middle west, and is a graduate of the University of Minnesota, a member of the class of 1911. He began his course at the University to study chemical engineering, but after pursuing that course for two years he made a change to the academic department, and graduated with the degree of A.B.

After leaving the state university, Mr. Blair took up Y. M. C. A. work, and for one year held the position of General Secretary of the Christian Association at Denver University of Denver, Colorado. In the following year he returned to his own university, holding a similar position. Mr. Blair will be at the Institute on part time also. He will take charge of general office work, and will continue the work of the Association in its different phases. He is at present devoting the rest of his time to his studies at Boston University, where he is attending the Theological School.

The regular office hours of the Secretary and his assistant have not yet been arranged, but will be announced as soon as possible.

SENIOR NOMINATIONS

All Papers Due at Cage Next Saturday.

Nominations for officers of the class of 1914 are now open and the papers will be due at the Cage on Oct. 11. The offices to be filled are President, Vice-President, Secretary, Treasurer, two members of the Executive Committee, two members of the Institute Committee, and two members of the M. I. T. A. A.

It is hoped that there will be at least three nominations for each office. These nomination papers are to be left at the Cage for the 1914 nomination committee, which consists of Alexander, I, Sutherland, II, and Nowlin, X. The ballots for the election will be out on Oct. 14 and the polls will close Oct. 1.

Some parade Saturday, Freshmen.

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THE HARE AND HOUNDS CLUB RUNS AT NEWTON

Rain Does Not Interfere With Race.
Few Freshmen Out for Team.

Despite the unfavorable weather Saturday, the first run of the Hare and Hounds Club this season was a decided success. Sixteen men turned out and undoubtedly more would have been on hand had it been a fine day. Coach Kanaly wants it understood, however, that nothing short of a Galveston flood will ever keep the cross-country team from going over their course. Saturday the run took place at Newton, starting from the Y. M. C. A. building. Despite the rain the course was not exceptionally muddy. The trail was laid over the same general direction as in other years, but with enough variations and blinds to keep them all guessing and to give the slower men a chance to catch up. The trail was laid by Chase Captain Peaslee and W. Jennings. There was no race for the bags and a moderate clip was maintained throughout, except on the home stretch, when a short sprint ended the run. In the sprint Capt. Nye and R. G. Brown came off with first honors.

After the run about half the team went in for a swim. This week's run will be held at Hyde Park, where the men will again have the advantages of a pool after the race.

Among those who ran yesterday were Brock '17, Hastie and Graff '16, Cook, Pollard, Lovell, Currier and Whitall '15, Lee and Holway '14.

DINNER TO FRESHMEN

(Continued from page 1.)

Major Cole was next introduced. He told of the close fellowship between classmates at West Point, and said that his class at the academy was more important to him than any other organization there. He urged the men of '17 to get acquainted with their classmates as much as possible during the first year, as after that the courses are separated and the men drift away from each other. Attendance at class meetings and participation in activities are both good for class spirit. He closed with urging the new men to "try to be representative Tech men."

Frank Kanaly was the representative of the Institute athletics. He described the athletics here, laying particular stress on the track work as the department with which he was most familiar. In explaining why track work is the major sport at the Institute he said that it is superior to other large sports in that it takes less time, is attended with less chance of injury, requires less expenditure for equipment, and needs less team work. The new men who come out for the teams, either class or varsity not only help the school but benefit themselves. Even if a man thinks he has no chance for the team, steady training will benefit his health and make him more able to do the Insti- (Continued on Page 4.)

POSITION WANTED—Experienced housekeeper desires position with fraternity; best of references furnished. Apply to Mrs. M. A. G., care THE TECH.

FOUND—A paper referring to the Virginia Military Institute was picked up on the street and is now at the Bursar's office, where owner can obtain same.

FOUND—A gold signet ring October 2d, corner of Dartmouth and Boylston streets. Owner may have same by proving ownership. Apply at THE TECH office.

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SOPHOMORE CANDIDATES NEEDED FOR RELAY
Practice at the Field in Full Swing. Handicapped by Lack of Men.

Although the formal call for candidates for the 1916 relay team has not yet been issued, about ten men are daily reporting at the field for training. The work so far consists of a few laps on the track, some sprinting and the practising of starts. Mr. Kanaly is hardening the men for the more serious work later on and expects to develop a team that will give the more numerous Freshmen a hard race for the honors. Among the men who represented 1916 last year and who are already either in training or have signified their intention of coming out are A. C. Lieber, Jr., T. K. Hine, C. Reed, Hayes, C. W. Loomis, G. D. Kittredge, D. L. Comiskey, K. Dean and C. T. Guething. Dean and Guething are at present with the cross-country squad, but the men hope to have them run with the relay team on Field Day.

This week the formal call for candidates will be issued and practice will be held every afternoon at the Field. Coach Kanaly will be working with both the 1916 and 1917 squads, and it is hoped that all 1916 men will report at the first call, in order to get as much of Frank's valuable time as possible.

Last year 1916 lost the relay race by a matter of less than two yards. This race was won by 1915 in nearly record time, 4 minutes, 57 4-5 seconds, only two-fifths of a second behind the record held by 1914. 1916 appears to have the material and the men are expecting to set up a new record.

COAL ANALYSIS

Various Fields of the United States Examined During 1912.

In the examination of various coal fields of the United States during 1912 by the United States Geological Survey, a large number of coal analyses were made for the purpose of determining, if the land was a part of the public domain, the value of the land underlain by the particular coal bed sampled, and in other areas to furnish information to the general public concerning the fuel resources have been grouped by states and are now available in a pamphlet published as advance chapter M from Bulletin 531, which may be had on application to the Director of the Survey at Washington.

In taking a sample of coal for analysis the geologist is instructed to make every endeavor to procure fresh unweathered material. He is supposed to face up the bed in the mine or prospect until fresh material is available, and then to obtain his sample by making a uniform cut across the bed from roof to floor, including all such benches and partings as an experienced and careful miner would include in commercial coal and throwing out such impurities as would certainly be excluded in practical operation. He is supposed to cut sufficient coal to give at least 6 pounds per foot of coal bed sampled. The sample is hastily pulverized in the mine until it will pass through a one-half inch mesh, and then is quartered down until about 4 pounds remain. This is placed in a galvanized iron can, sealed with adhesive tape or paraffin, and mailed to the laboratory for analysis.

DINNER TO FRESHMEN

(Continued from Page 3.)

tute work. Coach Kanaly spoke of some men who had come out only for their health, but who later made the team. He told the men that there was no danger from heart or lung trouble as each candidate for the track is examined by a competent doctor and is also under constant observation while doing the work.

I. W. Litchfield, '85, Editor-in-Chief of the Technology Review, spoke next as representative of the Alumni. He told of the Tech spirit shared by alumni and undergraduates alike. Very close relations exist here between all the classes and the alumni. New men are welcomed as brothers and treated as men. As an example of the interest of the alumni he told of the money raised by them for a Walker memorial and student center at the New Technology. He praised class spirit and said that the graduates are watching with interest the newest class, and hoping that it will make a good record.

W. P. Keith, General Manager of Tech Show 1914, was called on to speak next. Mr. Keith told how the Show has been developed from a minstrel show, held in 1890 to raise money for athletics into the present large production. He described the opportunities offered by the Show to men of all kinds in writing the book, the lyrics and the music and in the acting and business work. He sketched the different duties of men connected with the Show, and announced the Kommers Dinner which comes after Field Day and is devoted solely to subjects connected with Tech Show.

Technique, 1915, was represented by H. R. Crowell, Editor-in-Chief. He told of the election and work of the Technique Board, the contents of the book, and the Technique Rush. He explained how Juniors need co-operation in their work and how other classes could help by contributing.

After this the heads of the different departments of THE TECH spoke of the work on the paper. G. A. Palmer told of the treasurer's work. He said that THE TECH handled \$4000 or more each year, and that the business training gained in transacting this business was of value in after life. H. I. Knowles, Advertising Manager, described the work of raising money for the expenses of the paper, and called for new men to come out for business department.

C. W. Loomis, Associate Editor-in-Chief, believed that the editorial work was the most attractive. He said that the men for his department were chosen by contest and that the positions of Editor-in-Chief and General Manager were open to them.

F. L. Foote, Managing Editor, told of the news department of the paper. He said that work in this department was of value because it brought new men in contact with the leaders in student activities and with members of the Faculty.

The Freshman Temporary Chairman then said a few words, urging his classmates to work hard for Field Day. After Treasurer P. C. Leonard had asked the men to pay their class dues as soon as possible, the dinner broke up. The men rushed out of the Union in a body and started off for some noisy fun.

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