

# THE TECH

VOL. XXXIII. NO. 44.

BOSTON, MASS., TUESDAY, OCTOBER 7, 1913.

PRICE TWO CENTS

## SENIOR ELECTION COMMITTEE APPOINTED

**Nomination For Class Officers Now Open—Due Saturday, October 11.**

A meeting of the Governing Board of the Class of 1914 was held yesterday afternoon in Room 27, Rogers. The principal business of the meeting was the arrangement for the election of the class officers for the ensuing year. An Election Committee was appointed, consisting of E. P. Alexander, D. R. Sutherland, and E. M. Nowlin to have charge of the elections.

The treasurer's report was read and submitted to the Finance Committee for further consideration.

This was the final meeting of the present 1914 officers. The new officers-elect consist of a 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. Nominations are now open and will be due at the Cage on Oct. 11th. The Committee desire at least three nominations for each office. Election ballots will be out on Oct. 14th, the polls closing Oct. 21st.

## BIOLOGICAL TRIP

**Men To Attend Meeting at New Bedford on Thursday.**

The classes in Biology and public health will have the first inspection trip of the year next Thursday, when Professor Sedgwick will take the members to the meeting of the Massachusetts Association of Boards of Health at New Bedford. The main feature of the meeting will be the inspection of the new intercepting sewer system of the city and means for the disposal of the sewage. New Bedford has enjoyed the distinction of having so badly a contaminated harbor that the State Board of Health has prohibited the taking of shell fish from its waters for food, save under very stringent restrictions. The new system, which is to treat the sewage and convey it to strong outflow currents is expected to remedy all the difficulties. It will be a great object lesson for the students.

## LARRY HART MARRIED

Mr. Larry C. Hart, one of the prominent members of the Class of 1913 was married on August 9th to Miss Bernice Van Allan at Dayton, Ohio, the home town of the couple. The young couple are living in St. Louis, where Hart is with the Bemis Bros. Bag Co. Hart, who is so well known by many of the men at the Institute, was editor-in-chief of "Technique 1913" and was the assistant treasurer of last year's Tech Show. He graduated in Course XI.

THE TECH will be glad to meet some more new men any time that they will come around.

T. C. A. talks will begin next Thursday.

## CREW STARTS FALL PRACTICE TODAY

**All Members of M. I. T. Boat Club Eligible for Columbus Day Races.**

The fall crew practice starts this afternoon in earnest. Up to now no general practice has been held, although quite a few of the men have been working out several days a week in the single sculls.

The M. I. T. Boat Club has become a member of the New England Rowing Association during the past summer and plans are now under way to build up a lively interest in crew here at the Institute. As members of the New England Rowing Association, the Tech Boat Club will have the privilege of entering any of its members in the Columbus Day races.

These races are made up of different classes of single sculls and they will give any of the men interested a chance to row against some of the best novices in their class. Anyone desiring to enter these races may do so by handing in his name to Pursar Eugene Lucas, Jr., at the Cage before Thursday noon.

All men who are coming out for the crew are requested to report this afternoon at the new B. A. A. Boat Club at 4.15. The fall practice is very valuable to all candidates and Commodore MacRae urges all men interested to report.

## SOPHOMORE FOOTBALL

**Snappy Practice Held Yesterday—Line Still Weak.**

Notwithstanding the unfavorable weather conditions of yesterday, the Sophomore football team went through one of the most satisfactory practices which it has had this season. For over an hour Coach Cuddy drilled the men on simple line plays and end runs. During the easy scrimmage which followed the weak points of the individual men showed up strongly. The most prominent of these was the slow charging of the line men and their inability to open up holes. The backs worked well with a few exceptions, due mostly to unfamiliarity with the signals.

On Columbus Day the 1916 team will play Wellesley High. If the men continue to work with the same snap and enthusiasm which they showed this afternoon Coach Cuddy feels confident of giving the speedy Wellesley team a good game.

Manager Ruxton still feels that there are a good many men who could come out for the team. Some of last year's men have not reported yet and the time has been reached when good steady work must be started. Practice will be held every afternoon except Saturday on the Oval at 4.15 sharp.

Have you seen the progress being made on the new buildings over in Cambridge?

## WEATHER

For Boston and vicinity: Rain, with light winds.

## DRAWINGS POSTED FOR TENNIS TOURNAMENT

**Large List of Entries in Singles—Seven Days To Play First Two Rounds.**

The entries for the annual fall tennis tournament closed last evening with twenty-six entries in the singles and seven teams in the doubles. The drawings were made immediately and are now posted on the bulletin board of the Athletic Association. This board is situated in Rogers, directly to the left of the entrance to the General Library.

This tournament is for the Technology championship, and the winner in singles and winning team in doubles are awarded the ITI. The result of the play will also have some bearing on the selection of the team next spring. The draw was a very even one and the contest for the honors promises to be close. All the members of last year's team are entered, as well as some others who are likely to spring surprises.

According to the rules of the tournament the first two rounds of singles and the first round of doubles must be played during the first seven days of fair weather after today. This will be strictly adhered to, and failure to play off matches will result in the prompt defaulting of one of the contenders. The entry fees must be paid before matches are played. They may be left at the Cage for F. L. Hurlburt or G. W. Blakeley.

Under classmen will be expected to look up upper classmen. Men who did not designate class have been marked '17'. The classes have been indicated on the drawings. Each man in singles and each team in doubles will be expected to bring three new balls for each match. The winner or winning team will keep the three unused balls for the next match.

Winners will be expected to post the score of the match. The key to the bulletin board may be obtained by application at the Information Bureau in Rogers.

(Continued on page 4.)

## NEW TUG-OF-WAR ROPE

**1916 and 1917 Teams Will Now Practise Every Night.**

Until today the Freshman and Sophomore tug-of-war teams have been working with a big handicap, for there was only one rope to be had and so practice could be held only on alternate afternoons by each team. A new rope has been secured, so that today both teams will meet at the gym for practice at 4 o'clock.

Manager Sully of the 1916 team is not at all satisfied with the way men are turning out for the team and hopes that there will be more spirit shown in the future.

The men for the team are picked not by their size but by the spirit and endurance which they show at the practice. There are still many of last year's men who have not come out yet for the team. Sully wants to see all these together with as many new men as possible at the gym this afternoon.

## FIRST 1917 FOOTBALL GAME NEXT MONDAY

**Hard Scrimmage Yesterday—Still More Men Are Needed.**

The 1917 Football Team went through a stiff practise yesterday in preparation for their first game which will take place on the Columbus Day holiday, Oct. 13, with Somerville as opponent. The bunch is working very hard and showing all kinds of enthusiasm. Coach O'Brien says that he needs a few more heavy men, especially line men, so with the first game less than a week away, any with any intention of coming out should do so at once.

Besides the Somerville game, Johnny O'Brien is trying to arrange dates with Lowell Textile, Newton High, and possibly with Waltham High. A large crowd will probably witness Somerville game, as that will be the first opportunity to get a line on the Freshmen in action.

Among those who look good in the bunch of candidates now out are Wood, Harrington, Roe, Lee, Tuttle, Strout, Gramstorff, Johnson, Bell, McGreedy, E. Sawyer, Farnsworth, Gould, Moody, Dunham, Henderson, Hunt, Thomas, Leeper, Whiting, and Powers.

## TECH CANDIDATES

**Eleven Men Answer Call—Editorial Contest Announced Soon.**

Eleven new candidates for the news department of THE TECH were present at the meeting held yesterday at the lower office in the Union. They were C. A. Abels, C. M. Angell, H. M. Brayton, J. M. De Bell, L. L. McGrady, H. D. Manuclian, H. E. Lobdell, A. Pierce, G. W. Repetti, R. Stevens and Kenneth D. Kahn.

There are places for several more men in this department, as well as for a number in the business office. For the editorial department a contest will be held as in previous years, the conditions and prize to be announced later. Last year a silver loving cup was awarded to P. W. McNeill.

## CALENDAR

**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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TUESDAY, OCTOBER 7, 1913.

With the announcement by the Electrical Engineering Society that a greater effort is to be made this year to interest Sophomores, the question of the professional societies is brought squarely before the school. In a few days all the various courses will be organized and their society work will be in full swing. No more opportune time to join than the present could be found.

The function of these societies is to present so far as possible the practical side of the profession, to give the men a chance to ear the big men in their chosen line of work, to meet both them and their classmates who are entering this same line. In addition they take various trips, all of them interesting and many of great practical value.

In the past few years these societies have greatly increased both in number and influence. Many of them have enrollments in the hundreds and all of them get the enthusiastic support of their members. Perhaps in no better way can a man enlarge his personal acquaintance and at the same time greatly benefit the professional side of his career. These societies deserve the heartiest of support and are bound to get it. Are you in on yours?

With this issue THE TECH introduces a new phase of its news department in the form of short reviews of news items from the engineering and scientific world outside of the Institute, which we trust will prove of interest to our readers. We intend to frequently give reference to the articles reviewed so that those desiring to do so may read the report more in full.

## ENGINEERING AND SCIENTIFIC NOTES

At a recent meeting of the International Electro-chemical Commission held in Berlin an effort was made towards a much needed standardization of electrical terms when a list of some eighty terms and definitions was adopted. The commission has decided to add German and Spanish equivalent terms with their definitions to this list of terms, thereby bringing about a closer co-operation with the German committee, for previously only the English and French languages were used in the definitions.

The Marconi Company of America has just made a contract with the Norwegian government for the erection of wireless stations in Norway to communicate with station in Massachusetts. This will make another link in the chain of Marconi stations which are being planned to give wireless service throughout the entire world. The Marconi Company has purchased sites for the proposed stations along the Massachusetts coast and plans to erect the duplex system, by which radiograms can be received and sent at the same time. The operation of the system will be the same as is now employed at New Brunswick and at Belmar, New Jersey, through which messages are sent across the Atlantic to Wales.

This extension policy of the Marconi Company includes the erection of high power stations on the Pacific coast, in Japan and the Philippine Islands. Construction is already under way in Japan, but as yet the company has been unable to get concessions from the government for the Philippine station. These stations will be followed in a short time by a system of wireless communication with Australia, New Zealand, Egypt and India until radiograms can be sent to and from all parts of the globe.

### E. B. PHELPS TO SPEAK

Former Tech Prof. To Address Mass Assoc. Board of Health.

Mr. Earle B. Phelps until recently a Professor in Research in Chemical Biology at the Institute will address the Massachusetts Association Board of Health at the meeting to be held in New Bedford next Thursday. The subject of the article is to be "The Purification of Harbors."

Mr. Phelps is a graduate of the Institute being a member of the Class of 1899. He came to the Institute in 1903 as chemist and bacteriologist of the Sanitary Research Laboratory. He has now been called to take the important position of sanitary engineer for the U. S. Public Health Service.

It is to inspect the new Sewage and Disposal Plants of New Bedford that have been installed there to remedy the excessively bad conditions in the harbor owing to the ill disposal of sewage that the Association went to new Bedford.

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**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.

**CIVIL ENGINEERS TO  
ELECT NEW MEMBERS**

Prof. C. B. Breed To Speak on The  
Abolishment of the Grade  
Crossings at Lynn.

This year the Civil Engineering Society plans to hold a meeting every three weeks and to have a trip to some large work at least every four weeks. At these meetings it is expected to have some very interesting speakers.

The first meeting will be held on Friday, Oct. 17, at 8 P. M. in the Union. At this meeting Prof. Charles B. Breed of the Civil Engineering Dept. will speak on the subject, "Abolishment of Grade Crossings at Lynn." He has been in charge of this well-known engineering feat for several years and will thus be able to give a very interesting talk on the different phases of it. He has a collection of lantern slides which he proposes to use in connection with his talk.

The first meeting will be open to all men who are eligible to join the society. All men of the three upper classes of the Courses I XI and IV, Option 2 are eligible and it is hoped that a large number of men will turn out. Refreshments will be served. Twenty new men will be elected to membership in the society at this meeting, and all men who wish to become members must hand in their names at the Cage addressed to the secretary, J. W. Hines '14, before October 17, the date set for the first meeting of the society.

**THE SMELTING INDUSTRY**

The value of the metals produced from domestic ores, foreign ores, matte, and unrefined bullion smelted or refined in the United States in 1912, according to a report by J. P. Dunlop, of the United States Geological Survey, was \$995,798,618, compared with \$787,727,776 in 1911. The figures are approximate, as the value given for aluminum is that for consumption and includes the imported metal in addition to the production from domestic ores.

The quantity and value of the metals are given for both domestic and foreign sources, but it is necessary to add the value of the secondary metals recovered in 1912 in order to show the vast extent of the refinery and smelting industry in the United States. As the value of these secondary metals, which is exclusive of gold, silver, platinum, iron, and aluminum, amounted to over \$77,000,000 in 1912, it is reasonable to assume that the total value of the metals derived from foreign and domestic sources by the smelting and refineries in the United States amounted to over \$1,100,000,000. A portion of the increased value in 1912 was due to the much higher average prices for silver, copper, and zinc, but the production of all metals other than gold and antimonial lead increased in 1912.

The quantities of the various metals, which are given in other Survey reports in long tons for pig iron, ferro-alloys, and aluminum, in troy ounces for the precious metals, and in flasks for quicksilver, are all stated in short tons in the table given in Mr. Dunlop's report.

**CROSS-COUNTRY WORK.**

Today the Cross-Country men who are taking the preliminary training will meet at the Gym at 4.15, the others, however, will meet at the Field.

The work is progressing slowly and Capt. Nye of the Cross-Country Team says that there seems to be a lack of enthusiasm among the men, and hopes that in the future much more interest will be shown.

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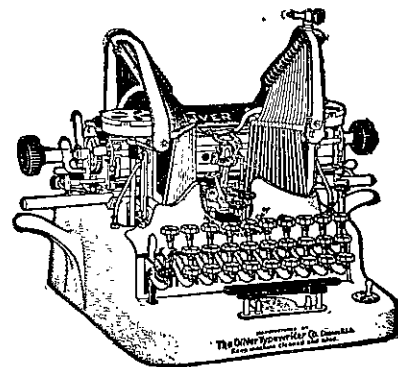
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**TECH MAN ELECTED TO T. C. A. ADVISORY BOARD**

Mr. F. L. Locke, '86, to Fill Vacancy Caused by Resignation of Mr. A. F. Bemis.

Mr. Frank L. Locke, President of the Boston Young Men's Christian Union, has been elected to the Advisory Board of the Technology Christian Association. Mr. Locke will take the place of Mr. A. Farwell Bemis, who resigned from the board a short time ago. Mr. Locke is a Technology man, having graduated from the Institute with the Class of '86 and was a member of Course I.

The election of Mr. Locke to the Advisory Board will be heartily welcomed and because of his experience with the Young Men's Christian Union he will undoubtedly make a very valuable addition to the board.

**TENNIS DRAWINGS**

(Continued from page 1.)

The pairing for the singles are: C. E. Shedd '16 vs. bye; R. P. Ware '17 vs. bye; R. H. White '16 vs. bye; F. L. Hurlburt vs. H. Roessler '17; A. B. McDaniel '15 vs. H. R. Stewart '16; I. Lapham '17 vs. D. Kendall '17; H. V. V. Fay '14 vs. T. R. Johnston '15; W. A. Strangman '17 vs. G. M. Keith '14; G. H. Gaus '16 vs. D. E. Woodbridge '16; G. R. Stevens '17 vs. R. A. Warren '17; M. P. Curtis '16 vs. L. Stone '16; W. Futterer '17 vs. M. E. Neuman '15; J. B. Carr '16 vs. J. Richardson '17; G. W. Blakeley '14 vs. bye; W. S. Stewart '16 vs. bye; A. K. Stewart '16 vs. bye.

The draw in doubles is as follows: Curtis and Gaus vs. Kingsbury and Roy; Hurlburt and Fay vs. Neuman and Runnells; McDaniel and White vs. Blakeley and Carr; H. R. Stewart and partner vs. bye.

**FOUND ARTICLES**

Articles enumerated below have been found. Owners of same may obtain them at office of the Supt. Bldgs. and Power, 26 Trinity Place.

- 1 Note Book.
  - 1 Book.
  - 2 Grey Rain Coats.
  - 1 Dress-suit Case.
  - 1 Leather Bag.
  - 1 Roll of Paper.
  - 1 Fountain Pen.
  - 1 Umbrella.
  - 1 Math. Note Book.
  - 1 Rain Coat.
  - 1 Bag.
  - 1 Class Pin.
- Signed A. S. Smith,  
Supt. Bldgs. & Power.

Something ought to be doing with that new tug-of-war rope on the job.

Have you got that program straightened out yet?

Do you want to buy a Drill Suit new (?) last year?

**FACULTY NOTICES**

Second Year—Course VIII.

The exercises in "Acoustics" (828) will begin on Tuesday, October 7, in Room 25 Walker at 10 o'clock.  
Walter Humphreys,  
Registrar.

Polarized Light (864)  
The lectures will begin on Tuesday, October 7, at 4 o'clock, Room 22 Walker.  
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