

# THE TECH

VOL. XXXV. NO. 43.

BOSTON, MASS., FRIDAY, NOVEMBER 19, 1915

PRICE THREE CENTS

## C. E. SOCIETY MAKES SUCCESSFUL TRIP

Commonwealth And Fish Piers Inspected—Also Drydock—Large Number Go.

At 2 o'clock yesterday afternoon about thirty men of the Civil Engineering Society left South Station for the new Commonwealth Pier. Two engineers from the Port Directors' office and the Pier Superintendent showed the men over the pier explaining the details of construction and also the facilities they have for the handling of freight, baggage, immigrants and passengers. He then conducted them over the North German Lloyd steamship "Cincinnati" which is tied up at the pier.

The party next went through the Fish Pier accompanied by the president of the New England Fish Corporation which has leased the pier from the state. Here again the construction was looked into, and the men also visited the cold storage plant which is claimed to be the best equipped one in the world. In some of the rooms for the storage of fish the temperature is kept at twenty-five degrees below zero.

The members of the society also looked over the new Dry Dock site and the Port Directors' engineer gave

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## CHEMICAL SOCIETY

Two Trips To Watertown Arsenal—Only Fifty May Go.

There will be two trips of the Chemical Society to the Watertown Arsenal; one today and the other on Friday, November 26. As the number of men who can be accommodated is limited to fifty, any wishing to go on this trip should see R. A. Miller in the Union between 1.00 p. m. and 2.00 p. m. just as soon as possible.

The men will meet in the Union at 1.05 o'clock so as to go in a body to Copley Square where the cars leave for Watertown at 1.15 o'clock. It is necessary to get an early start in order to see the metal pouring which takes place at 2.15 o'clock. It is expected that Professor Henry Fay of the Analytical Chemistry Department will accompany the party and explain the various operations.

## HARVARD-YALE GAME

The Harvard-Yale game tomorrow begins at 2.00 o'clock, and, to make sure of being there on time, spectators should allow themselves almost an hour from Boston. The Institute students sitting in the cheering section have been asked to be sure to obtain the colored handkerchief that has been printed on their ticket, in order that the formation of the "H" may be successful.

## ELECTIONS ANNOUNCED AT WEDNESDAY SMOKER

Large Number Out For The Tech—Short Lecture By John Ritchie, Jr.

Forty-five students of the Institute, connected with The Tech met in rooms A and B of the Union on Wednesday evening at a smoker. Various subjects with a bearing on work on the paper were brought out by members of the managing board and the results of the recent election made known. The gathering was addressed by Mr. John Ritchie, Jr., the Institute Publicity agent.

General Manager H. P. Claussen '16 opened the proceedings with a review of the history of The Tech, beginning with its inception in 1881 and through the stages of its development to the present tri-weekly. This was followed with a series of anecdotes and reminiscences by H. E. Lobdell '17, Managing Editor, and J. M. DeBell '17, Editor-in-Chief of Technique 1917.

Mr. Ritchie's talk was interspersed with references to various newspapers throughout the country. He emphasized the growing importance of the daily press as the medium in influencing the public and alluded in particular to the use of the news sheet by the German government to turn the trend of American opinion in the interest of Germany in the present day strife. He also spoke of the frequency with which departments of the U. S. government utilize the space of the big dailies to get into more intimate contact with the people instead of relying wholly upon the older method of issuing pamphlets. He

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## WIRELESS SOCIETY

Mr. H. A. Affel Describes Research Work At Institute.

Owing to the fact that Mr. H. J. Power was unexpectedly called to Providence yesterday, he was unable to be present at the meeting of the Radio Society and Mr. H. A. Affel, a graduate of the Institute, gave a very clear and concise description of results of research work that he has carried out.

He stated that his work had been undertaken primarily with regard to the determination and measurement of high frequency resistance of wires

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## BALLOT CORRECTIONS

In the ballot for the Class of 1919, the following additions and changes are necessary: F. O. Wyse, candidate for Treasurer; Henry Giles, candidate for Institute Committee; J. L. Riegel, candidate for Institute Committee instead of Executive Committee.

## E. E. SOCIETY ADDRESS ON "INSULATIONS"

Lantern Slides Illustrate Mr. Morse's Talk On Modern Wire Making.

The Electrical Engineering Society was entertained yesterday evening by an interesting and instructive talk by Mr. Morse of the Simplex Wire and Twist Drill Company. Mr. Morse described in detail the modern methods of insulating wire, and the different processes employed in the building of cables.

The commonest insulating material, and the most serviceable, is rubber. Mr. Morse showed by lantern slides the machines for washing and kneading the rubber; machines for forcing it in a seamless tube over the wire; and lastly the furnaces for vulcanizing the finished product.

Cables for conduit and overhead work must be encased with lead. The covering is put on by a heavy hydraulic press which forces the lead, while cold, in a seamless jacket tight around the insulated strands. For making cables to be laid directly in the ground, there is a machine that covers the leaded cable with successive layers of tar, jute, and steel.

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## DARTMOUTH FRESH WIN

Defeat Technology Freshmen In Cross Country Run.

The Dartmouth freshmen won from the Technology freshmen in a dual cross country run, held on Wednesday, Nov. 17, over the Franklin Park course. Smith, the Dartmouth captain, was the first to finish, leading McCarten of Technology across the line by about 200 yards. Herzog, captain of Technology, finished third, but by placing the next four men, Dartmouth won the race, 23 to 32.

Owing to a mix-up where the course doubles back, the teams ran almost the full Intercollegiate course. The order of finish of the first ten men was as follows: 1, Smith (D.), 31.29 2-5; 2, McCarten (T.), 31.59 2-5; 3, Herzog (T.), 32.4 2-5; 4, Howe (D.), 5, Warnke (D.), 6, Pailsey (D.); 7, Buckley (D.); 8, McCloskey (T.); 9, Bent (T.); 10, Whaley (T.).

## LYRIC WRITERS

The first meeting for those interested in writing lyrics for Tech Show 1916 will be held in the Show Office, Tuesday afternoon, November 30, at 5.00 o'clock. In order that the men may get an idea of the character of the lyrics to be used, portions of the book will be read, and the three authors, R. H. White, I. B. McDaniel, and E. E. Freeman will be present to explain details and answer any questions.

## THE ALL-TECHNOLOGY PICTURE THIS NOON

Copley Green Chosen For First Picture Of All Institute Undergraduates.

At 1.05 o'clock today, a memorial of the last student body of the old 'Stute will be made with the taking of an All-Technology photograph on the Copley Green before the Public Library. The Seniors and Juniors will meet on the side of the green facing Boylston Street under the leadership of Bill Farthing and Pen Brooks, the Class Presidents. Johnny Clarkson is to have charge of the Sophomores who will congregate on the side nearer the Copley-Plaza; while the side facing the Library is reserved for the first year men. Rusty White will act as master of ceremonies.

The idea of this school picture meets with the hearty approval of President Maclaurin and Dean Burton. If a live and enthusiastic response is shown by a representative school showing for the picture, it will be used in Technique 1917. It will be the first All-Technology photograph ever taken.

## MEN AND THE CHURCH

A. E. Miles, Actor, Scientist And Preacher Speaks.

Mr. Miles of Dorchester spoke yesterday at the Union on "Men and the Church" before a large audience. He said, "In the earliest times women were the slaves of men. The churches were created and governed by men for themselves. Gradually women became more interested in the affairs of men to such an extent that the men became alarmed at the progress women were making.

To avoid this rising spirit of women, St. Paul gave out his rules which should govern the church, men and women. Christ was the leader of men and men were the leaders of women. It was a disgrace for women to offer prayer with their heads uncovered.

Gradually changes have taken place till now women are the mainstay of the life of the church. Men support

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## CALENDAR

Friday, November 19, 1915.

1.05—ALL TECHNOLOGY PHOTO. COPLEY GREEN.

4.30-6.00—Mandolin Club. Union, Room B.

5.00—Gym Team Practice. Gym.

5.00—Swimming Practice. Y. M. C. A.

Saturday, November 20, 1915.

10.30—I. C. A. A. A. Cross Country. Fairmount Park.

# THE TECH

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FRIDAY, NOVEMBER 19, 1915

### "TECH ON BOYLSTON STREET."

An eminently fitting remembrance of the last year of the "Tech on Boylston Street" will be the photograph of the whole undergraduate body which is to be taken on Copley Square this noon. "All-Technology" the event has been advertised, and this does not mean a fifty or seventy-five percent representation. As a keepsake the photograph will be worthless unless every individual finds at his friends somewhere in the crowd. Somebody will be looking for you in the picture although you may not be looking for him.

### EFFICIENCY?

Many of the instructors and professors who return problems and reports to the coat room of Engineering A seem to have neglected to tell their classes that they are doing so. The boxes are crowded with Sophomore and Junior Heat and Valve Gears problems and Seniors are obliged to go through a large pile of dirty and wrinkled papers that have been collecting there all the fall, both running the risk of overlooking one of their own reports in the chaos and of taking more than the allotted ten minutes between classes which would ordinarily be quite sufficient for the purpose. If those who are in the habit of returning matter that does not require immediate correction to these boxes would either notify their classes, or better, return the material in the class rooms, it would be greatly appreciated by the Seniors.

### I. C. A. A. A. RUN

The I. C. A. A. A. Cross Country Run will be held tomorrow over the Fairmount Park course, beginning at 10.30 o'clock. Cornell is considered the favorite for team honors. Brown, captain of the Technology team, is expected to make a hard fight for first place. The following teams will run: Brown, C. C. N. Y., Colby, Columbia, Cornell, Dartmouth, Harvard, Maine, M. I. T., Michigan, U. of P., Princeton, Syracuse, Yale.

### TECH THE ONLY TRUE AMATEUR INSTITUTION

Strict Enforcement Of A. A. U. Rules Would Eliminate Other Colleges.

That Technology would remain as the only institution with unimpaired amateur standing if the rules of the Amateur Athletic Union were enforced strictly is the contention of the Boston Herald in an editorial yesterday morning. The rules referred to place upon the ineligible list all teams that have played against combinations containing professional players, or who have themselves played against such teams.

The cause for trouble at the present time is the action of Trinity College in insisting on playing Brickley on her eleven. If the A. A. U. rules were strictly enforced every team that has played or that does in the future play Trinity would lose its standing, and in turn every team that Trinity's opponents met would be likewise affected. "And so," says the Boston Herald, "the links make a chain which reaches all the way to the far coast and back again; and in the end, of the twenty-nine members of the Intercollegiate Association, only Tech remains unscathed."

### TECH SMOKER

(Continued from Page One)

advised the college "heeler" to learn to handle the news as the reporter must sooner or later learn to do, by presenting facts that are "new, timely, and written in a concise style." He produced numerous clippings from papers from different sections in this country to show the nature of his work in putting the Institute before the public.

The results of the Fall elections were then read. They are as follows:

Assistant Managing Editor, D. E. Bell '17; Sporting Editor, W. J. Littlefield '17; In Charge of Wednesday Issue, J. W. Damon '18; In Charge of Friday Issue, B. A. Thresher '18; Associates on News Board, A. H. Wenzel '17; M. A. L. Eales '18, A. N. Pray '18, K. Reid '18, E. A. Grunsfeld '18; News Staff appointments, A. W. Joslin '18, G. L. Hancock '18, M. C. Brown '19, A. E. Garnsey '19, W. R. McKenney '19, E. F. Perkins '19, D. C. Sanford, Jr., '19, T. M. Strang '19, and J. S. Whaley '19. In the circulation and business departments O. C. Lorenz '18, O. Camman, Jr., '19, and R. VanNeste '19 were elected to the business board and D. F. Willey '19 and W. H. Bassett, Jr., '18, were placed on the business staff.

### SEA SLED LECTURE

Professor C. H. Peabody announces that a lecture will be given in Room 11, Engineering B, at 4.00 p. m. Tuesday, November 23rd, by Mr. Albert Hickman, on the Sea Sled.

### I. C. A. A. A. CHECKERS

The same checkers who acted in the N. E. cross country run last Saturday will check the runners at the I. C. A. A. A. runs to be held tomorrow. Men unable to assist should leave their names at the Cage today.



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**WIRELESS SOCIETY**  
(Continued from Page One)

used in wireless work. A large part of the present day theories in this direction have been known for a long time but have been taken for granted and very little has been done in proving or disproving the assertions. Resistance in wires is not constant in both alternating and direct current circuits as many people believe. The

ratio of resistance in an alternating current circuit to that in a direct current circuit is known as skin effect and one of the most practical of present day problems is the determination of this skin effect inasmuch as it occurs in solid wire, stranded wire, metal ribbon and metallic tubing. These tests are dependent upon diameter and material of substance tested and upon the frequency of the current used. A seven stranded wire showed by test no different skin effect than that shown by a solid wire up to 500 cycles frequency. With a larger number of strands however the difference is noticeable. The instruments used in carrying out these experiments were of the most efficient type. In order to obtain the high frequency necessary for carrying on the work a special type of generator was the essential factor. The machine in use at the present time is similar to that designed by R. A. Fessenden and which was manufactured by the General Electric Company. It is driven by a direct current motor which runs at a speed of two thousand revolutions per minute and by means of a ten to one step up ratio a speed of twenty thousand revolutions per minute on the generator is obtained. At the maximum speed a current of one hundred thousand cycles frequency is given off.

**MEN AND THE CHURCH**  
(Continued from Page One)

the church but women do the work and their share towards maintaining it also. Sixty out of a hundred women in a church in Dorchester are self-supporting, and help support their church also.

From the ever increasing demand for money some say that America is money mad. The belief that money can make a church is wrong, for money kills the real purpose of the church. The Christian church is opposed to this money craze, and it is rather upon the ideals and willingness of the members that the church depends.

Due to this lack of interest of the men in their churches an appeal is sent all over the world to men to interest themselves in their church and its work. The church does not necessarily need the men but they need the church. The excuse that men are too engrossed in their work to come to church does not hide their waning interest. The men of America and Europe are entirely different in that the American man leaves much more to his wife than does the European.

As an example, a prominent speaker was speaking in New York city before a large audience of women on the "Conservation of the Natural Resources of America." On being asked what he expected to gain by speaking to an audience of women he replied, "The men are too busy to come to the lecture but their wives come and then tell them about the subject."

**FACULTY NOTICE**

The exercises of the Institute will be suspended on Thursday, November 25 (Thanksgiving Day).

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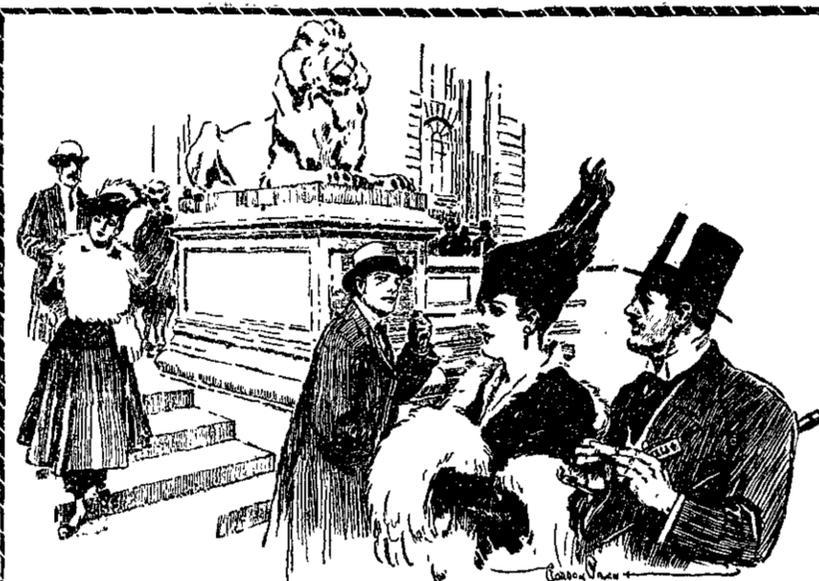
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**C. E. TRIP**

(Continued from Page One)

them an outline of the work and what  
was to be done in the future develop-  
ment of the harbor.

The trip was arranged through the  
courtesy of Mr. R. E. Barrett, design-  
ing engineer of the Directors of the  
Port of Boston.

**E. E. SOCIETY**

(Continued from Page One)

that make the product indestruc-  
ible.

The most important part of the  
plant is the testing laboratory. Mr.  
Morse said that the apparatus in it,  
which was designed by Professor  
Adams of the Institute, was the best  
in the United States.

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