

# THE TECH

VOL. XXXI. NO. 78

BOSTON, MASS., THURSDAY, DECEMBER 21, 1911

PRICE TWO CENTS

## ELECTRICALLY DRIVEN SHIPS OF THE FUTURE

Speed and Efficiency to Come With Installation of New Indirect Propulsion.

A large number of Tech men took advantage of the invitation extended by the A. S. M. E. and attended the lecture given by Mr. R. E. Emmett on the "Electric Propulsion of Ships," in Chipman Hall, last evening, before a crowd of more than five hundred people, including Technology, Tufts and Harvard undergraduates, as well as a large number of practicing engineers of the city.

Mr. Emmett said that the most efficient size of reciprocating engines is one which is not more than two thousand K. W. output, while the efficiency of turbines, both in steam consumption and in weight, increases with the size. This allows the development of thirty thousand horsepower, the amount required in an ordinary ship in a single unit.

This system of propulsion, however, has one very large fault, which lies in the fact that the speed most efficient for the turbine is much higher than the propeller speed of highest efficiency. This is a fact which has to a large extent prevented the general use of turbines in marine use.

In the United States collier "Jupiter," in which the new system of electrical propulsion has been installed, it has been found that the method of driving the propeller indirectly through a turbine driven generator and a motor on the propeller shaft is a great success. The weight of this turbine, 145 tons, is far less than that of the reciprocating engine which is used in the "Jupiter's" sister ship. In steam consumption the tur-

(Continued to Page 2, Col. 2.)

## VACATION DAYS.

Start the Year Right By Appearing January First.

Every man should observe the Faculty notice about vacation that has appeared on the bulletin boards and in THE TECH. The vacation extends from Monday, the 25th, to Saturday, the 30th, inclusive.

According to the usual custom the instructors are required to inform the Dean of all men absent on Saturday, the 23rd, and Monday, January 1st. This rule is strictly adhered to, so it behooves every man to be on deck the last day this week and the first of January. Appearance that day will be starting the year right anyway, and thus a good resolution will be inaugurated.

## PUBLIC SPEAKERS.

Today, at 4 o'clock, the exercises in public speaking will be held in 23 Walker. Five men will give informal talks, the subjects of which cover a wide range of interest. These subjects and the men who will present them are as follows: Messrs. E. Hurst, Will-Power; R. B. Kennard, Alpine Climbing; B. S. Munch, Labor Unions; E. D. Pratt, Some Facts About Alaska; K. C. Robinson, The Land Tax. Visitors are welcome at all of these lectures as they are of great interest.

## INSTITUTE COMMITTEE HOLDS BUSY SESSION

"Concerning M. I. T." Board Elected—Point System Additions.

A meeting of the Institute Committee was held yesterday afternoon in Room A of the Union. The Point System Committee submitted a final report, and announced that one man only was over points. The following recommendation that the several new activities be given ratings was accepted, and the ratings are as follows: Orchestra, manager, 7 points; leader, 6, and members, 5; clerks of odd classes, 1 point; Wrestling team, manager, 4 points; members, 3 points; Gym team the same; Chauncy Hall Club and Brotherhood of St. Andrew, president, 3 points, and the other officers 1 point.

The election of the Board to publish the new edition of "Concerning the Massachusetts Institute of Technology" then took place. Gerald M. Keith, formerly Editor-in-Chief of THE TECH, was elected Editor-in-Chief. David F. Benbow, Business Manager of Technique, 1912, was elected Business Manager. G. P. Capen, formerly of the business staff of THE TECH, Treasurer; E. E. Corbett, Assistant Editor, and C. G. Fallon, Assistant Business Manager.

It was decided that the meetings of the Institute Committee be held hereafter in the chemistry lecture room, Eng. C. The appointment of F. C. Weiss as chairman of the Entertainment Committee was ratified. H. R. Crowell was appointed chairman of the Bulletin Board Committee. The next meeting will be held Wednesday, January 3.

## PHOTOGRAPHS WANTED.

Excellent Chance for Amateur Photographers.

Technique wants some good photographs or snap-shots of any of the Field Day exercises or any other subjects of Institute importance for their 1913 issue. If anyone happens to be the possessor of any pictures of this character he may be able to make some extra cash for Christmas. Everything that is accepted will be paid for at regular space rates. If anyone has anything he is requested to leave a note at the Cage for the Photo Editor. The managers of the different Institute activities who desire to have their societies or teams represented in Technique are asked to arrange with Notman, the photographer, of 3 Park street, to have groups taken. The sooner this is attended to the better, since better positions will be given to the first comers in the issue.

## "CONSISTENCY."

Excellent Subject Chosen by Mr. Anderson for Noonday Talk.

Today the Christian Association will give a cordial welcome to Elbridge R. Anderson, a big corporation lawyer from State street, who will talk for a few minutes to the fellows on "Consistency," something which has been

(Continued on Page 2, Col. 1.)

## TECH TEAM MEETS HARVARD TONIGHT

Mass Meeting Held in Huntington Hall Yesterday—Team in Fine Shape.

About a hundred fellows attended the mass meeting held in Huntington Hall yesterday noon, in order to arrange some enthusiasm for the hockey team, which is to inaugurate its season tonight with a game with Harvard. Dr. Rockwell gave a very interesting talk and included some very useful knowledge. In part he said that when he was in the Institute athletics were not supported by the Faculty at all, and they got a great deal more support from the students than the teams got at present, when the teams are so much encouraged by the Faculty.

He told the men that it was all right to lose if they lost like men and played a clean game, not a rough and tumble fight. He said that he did not want to see any more men out of the game for fouling than was absolutely necessary. Dr. Rockwell praised the fellows who did appear at the mass meeting for the spirit they showed, and advised every one to bring a couple of their friends along.

Dean Burton said a few words in regard to the support of athletics by the Advisory Council and Faculty, and urged all the fellows to take an interest in the team and help the seven to bring home a victory.

(Continued to Page 3, Col. 2.)

## MECHANICALS' LECTURE.

"Power Plant Efficiency" to Be Discussed by Expert.

An important meeting of the Mechanical Engineering Society will be held this afternoon in 11 B, at 4 o'clock. Mr. R. B. T. Collins of the Commonwealth Edison Company will give a lecture on "Power Plant Efficiency," paying especial attention to power plant economy and specifications for power plants and boilers.

Mr. Collins is an expert mechanical engineer and economist and is very well versed in his line of work. He has had 18 years' experience, having spent a great part of his time in Texas and Southern California. He has made a special study of oil-burning furnaces and oil burners, although he will not speak on this branch of his work.

Specification sheets for low pressure turbines, pumps, water return systems and other appliances will be given to every member present, and these are of great value, especially to Seniors.

## JUNIOR STATISTICS.

Statistics blanks have been sent out to the Juniors by the Statistics Editor of Technique. It is desired that all blanks be filled out and returned by the close of this week, in order to facilitate early work in tabulation.

As customarily, humorous answers are expected from many men. This time, however, the editor wishes that the personal questions be seriously considered, and rational answers be given to them. They form the real vital statistics of the class, and therefore must be carefully answered.

## PROM BALLOTS DUE THIS AFTERNOON

Class Showing Proper Interest in Election—Closes at 4 O'clock.

This afternoon, at 4 o'clock, the Junior Prom ballots are due at the Cage. To date there has been a considerable number turned in, indicating that the class is showing the proper interest. This attitude is very favorable as the election is a very important one.

The withdrawal of Bylund and the addition of Carlson leaves the number of candidates unchanged, and five good men can unquestionably be chosen. In order to help those who have not already voted another review of the nominees is given. F. H. Achard has been connected with the Show and was chairman of the Entertainment Committee; G. P. Capen is captain of the second basketball team, and has been on THE TECH and class football and basketball teams. O. G. Fallon has been a member of class football and basketball teams, as have also Goff, Sampson and Welch. H. K. Franzheim is president of the Musical Clubs, and M. Lewis, R. B. Nichols and P. C. Warner are connected with the Musical Clubs. A. G.

(Continued to Page 2, Col. 2.)

## STEIN SONG AT ARENA.

Cheering Section to Be Aided By Band During Harvard Game.

A new stunt will be pulled off at the Arena tonight in the shape of Tech songs from the band during the intermission between the halves, which will be a great help to the men in their singing.

With this aid the section should make a great show for itself, and the largest crowd of Tech men ever in the Arena will make the place ring with the "Rah! Rah! Rah!" of "The Cardinal and the Gray." There will be some good cheer leaders on hand to keep the noise systematized, and everybody (not merely seven men) will beat the Crimson.

A very large part of the allotment of seats to Tech have already been sold, and the men who have not yet bought theirs should exchange the long green for the valuable little pasteboards as early as possible, for the good seats are practically gone now.

## CALENDAR.

Thursday, December 21st.  
Junior Prom Ballots Due.  
M. E. Society—Chipman Hall.  
1.30—T. C. A., E. R. Anderson—Union.  
8.00—Tech vs. Harvard, Hockey—Arena.  
8.00—Lowell Lecture on Architectural Acoustics—Huntington Hall.  
Friday, December 22nd.  
Tech vs. S. T. S., Basketball—Springfield.  
5.00—Lowell Lecture on Milk—Huntington Hall.  
6.00—Hockey Practice—Arena.  
Saturday, December 23rd.  
Tech vs. C. C. N. Y., Basketball—New York.  
Exercises suspended until January 1st.

JUNIOR PROM BALLOTS DUE 4 P. M.

# THE TECH

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THURSDAY, DEC. 21, 1911

IN CHARGE OF FRIDAY ISSUE.

EDITOR—Cary, C. A., 1912.  
 Associates—Graham, L. H., 1914; Mann, P. J., 1915; Rogers, H., 1915; Somerby, F. S., 1914.

Are you going to the hockey game tonight? Last chance to get that ticket, and be sure and get it here at the Institute and thereby help out the Athletic Association. If you were at the mass meeting you must have felt what Dr. Rockwell said concerning the support that you were giving the teams in comparison with that, when the school was smaller and there was strong opposition on the part of the Faculty, instead of tolerating non-interest as at present. The team is in fine shape and will, no doubt, put up a fine game against Harvard, but the more Tech men there to cheer them on the better game will they put up. Therefore, take this to heart and get on to the job, buy your ticket now, and if "she" wants to go, buy two tickets, and then go up to the Arena at 8 o'clock and cheer until the game is over, and make "her" cheer, too. The old saying, "United we stand, Divided we stand it better," does not apply at all in this case. What we want is "two throats that cheer as one."

All men who are going to be in New York Saturday can do no better than to attend the basketball game at the College of the City of New York Gym. The game last year was one of the most interesting of the year, and the New York boys were surprised to see a Tech cheering section, even though it was a small one. Let every one who has no previous engagement come around and "Cheer for the Victory."

### "CONSISTENCY."

(Continued from Page 1.)

typified in his career to a very large extent.

Mr. Anderson has been a lawyer in Boston for more than twenty-five years, and during that time he has done a great deal of work both in the local government of his home town and also here in the city on the subway system. From these facts it can be seen that he is a man with little or no time to spare, and Tech men can well feel fortunate that he has consented to speak at this noonday meeting.

If there are any men who have let these little talks slip by in the past because of some fancied fear of a sermon, they can come safely today, for Mr. Anderson is far removed from the ministerial line and he will give nothing but straight talk right from the shoulder.

## ORCHESTRA PLAYS AT NEWTON TONIGHT

Varied Program to Be Rendered  
 —Held at Newton Y. M. C.  
 A. at 8 O'clock.

The Orchestra is going to play in the Newton Y. M. C. A. tonight at 8 o'clock, and all members are expected there by 7.40. The following program has been arranged:

1. Guard Mount .....Ellenberg Orchestra.
2. Faust .....Gounod Orchestra.
3. Chants Sans Paroles.....  
 .....Tschaikowsky Tech String Trio.
4. Magic Flute.....Mozart Orchestra.
5. Readings,  
 Miss Gladys Bodge.
6. a. Schlummerlied..... Schumann  
 b. Intermezzo .....  
 ..Cavaleria Rusticana Mascagni Tech String Quartet.
7. Chocolate Soldier.....Strauss Orchestra.
8. Baccarole Contes d'Hoffmann..  
 .....Offenbach Tech String Trio.
9. Cleopatra Dances.....Oehmler Orchestra.
10. Roman March.....Gounod Orchestra.

The Y. M. C. A. building can be reached by taking a car marked Newton via Brighton to the end of the line. The Y. M. C. A. is at the corner of Washington and Church streets. Newton, only a minute's walk from the last stop. The train leaving Trinity Place at 7.09, on the Boston & Albany, stops at Newton station at 7.24.

The members of the Orchestra are expected to wear Tuxedos.

### ELECTRICAL PROPULSION.

(Continued from Page 1.)

bine shows a balance of two and a half pounds per horse-power hour.

The problem of electrical transmission of power is very simple, for there is only a short line on which there can be a low voltage used under a constant load. This type of motors used has been tried on land for more than twenty years, and there are now more than a dozen designs ready to be used in the various sizes of ships.

Another method of solving the problem of using a turbine on ship-board is to use gears with a high-speed turbine and a slow speed propeller. This has proven very impracticable except in one case where it was used on a small vessel with a fair degree of success. There is one very great objection to any form of gear, and that is the fact that all those brought forward to date, including the one by Parsons of turbine fame, have weighed more than the whole equipment for the more efficient electrical plant.

### PROM BALLOTS.

(Continued from Page 1.)

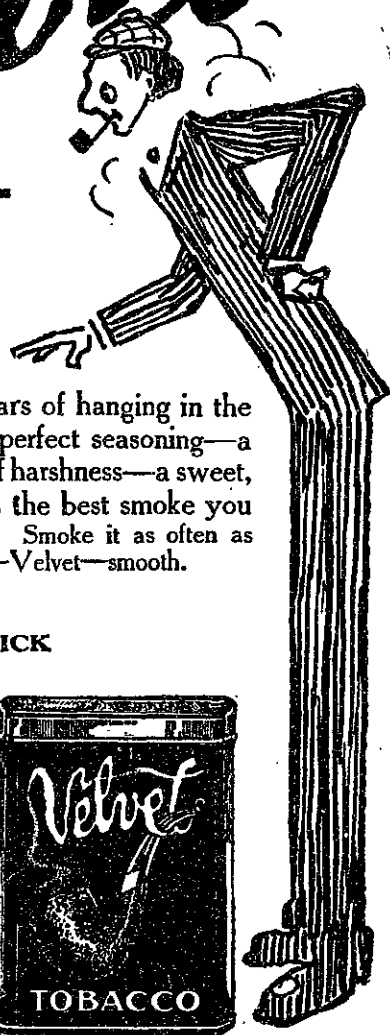
Ranney plays goal on the hockey team and is also manager. J. G. Russell is a Show man; W. N. Holmes was class president his Freshman year. S. W. Selfridge was general manager of the Musical Clubs. W. R. Bylund is secretary-treasurer of the A. A. and is a prominent half-miler. Strachan is a track man and is secretary of the C. E. Society. Fallon is also on the Class Executive Committee of the class. Lewis has been on the News Board of THE TECH. D. H. Van Deusen has been a prominent member of the Show.

Are you getting busy preparing for this mid-year's? Now is the time to do it as the Christmas vacation is a time for rest.

Not much interest in Sigma Xi at the Institute. Do you think so when only 93 men vote?

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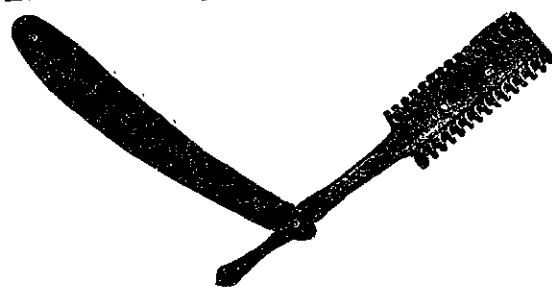
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**LEE CHOSEN CAPTAIN OF FRESHMAN TEAM**

Large Squad Gives Chance For Scrimmage Work Between Two Teams.

At the practice of the Freshman basketball team, held yesterday afternoon, Robert Lee was elected captain. Lee comes from Bridgeport, Conn., and played tackle on the Freshman football team. No definite team has been selected yet, but it is expected that one will be picked soon after Christmas.

The men have been showing up in great style and enough have reported for the last practices to form two teams, and regular scrimmage work has been gone through. Scully is a fast player and knows how to keep his eye on the basket. Lee is covering the defense prettily and can handle the ball well. Dalton, although playing on the Varsity second team, can play in most of the Freshman games and will be a strong addition to the team. The Wentworth brothers are also strong players and can handle their part of the floor in good shape.

The team was to play last night at Revere with Revere High, but the game was cancelled by the high school men and the 1915 team practiced instead. Their first game will probably not come until the middle of January, but Manager Scully is trying to get some games for earlier in the month.

**HARVARD HOCKEY GAME.**

(Continued from Page 1.)

Manager Ranney and President Kebbon, of the Senior Class, spoke about coming up and cheering and asked the fellows to get seats from the men around the 'Stute that are selling them, so that they will be in the cheering section.

The team has put in a lot of extra practice and is now in the best of condition. Team work has been developed to a much higher degree than shown in the practice games. The defense, especially, has improved, and it will take a fast and clever forward line to get by it. Stucklen, Eichorn and Whittlesey are about the best men on this part of the team. Stucklen is also very good at running the puck down the ice, and could be used as a forward if occasion demanded. Eichorn has been troubled with a bad knee, but is in first-class condition now. MacLeod and Lane are also strong on the defense.

The forwards will be the same as in the previous games. They are fast on the skates and good at shooting, but are rather careless about forward passes. Captain Sloan is a veteran at handling the puck and has a good backing in Hurlbutt and Yearance. Fletcher has some lots of speed lately and may get into the game.

Ranney is booked to stop every kind of a shot at the goal except the easy ones, which, in spite of everything, will get by him once in a while. With the Tech defense in front of him he should block most anything that will add to the Harvard score.

The squad contains several very promising candidates who could be used if necessary. Rogers, Coffin and Williams are about the best of these, and with consistent practice should soon become as good as any now on the team.

The Harvard team has improved a lot in the last week, as was shown by their holding the B. A. A. team to a 0 to 0 score in a 25-minute practice game Saturday. Their defense is very good, but their forward line plays very wild at times and is rather slow at shooting. Captain Huntington is not in condition and will not be on the Harvard lineup.

The teams will line up as follows:  
Tech. Harvard.  
Storke, i. w. . . . . i. w. Stortwell  
Hurlbutt, i. c. . . . . i. c. Duncan  
Sloan, r. c. . . . . r. c. Palmer  
Yearance, Fletcher, r. e. . r. e. Morgan  
Stucklen, MacLeod, c. p. . c. p. Wingate  
Eichorn, Whittlesey, p. . p. P. H. Smart  
Ranney, g. . . . . g. S. B. Smart

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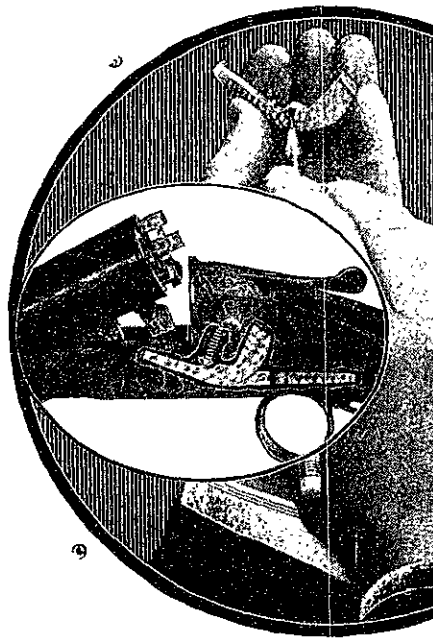
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**FACULTY NOTICE.**

December 15, 1911.  
The exercises at the Institute will  
be suspended from December 25th to  
December 30, inclusive.

By vote of the Faculty instructors  
are requested to send to the Dean the  
names of all students who are absent  
from exercises on Saturday, Decem-  
ber 23rd, and on Monday, January 1st.  
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